

| Reference        | Sample | Country  | Location1 | Location2 | Type | id          | id2 | id3 | Age (Ma) | Event          | Rb (ppm) | Sr (ppm) | Rb/Sr  | <sup>87</sup> Rb/ <sup>86</sup> Sr |
|------------------|--------|----------|-----------|-----------|------|-------------|-----|-----|----------|----------------|----------|----------|--------|------------------------------------|
| MOSTMEG          | R#1    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 117      | 61       | 1.918  | 5.543                              |
| MOSTMEG          | R#5    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 130      | 62       | 2.097  | 6.060                              |
| MOSTMEG          | R#8    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 116      | 58       | 2.000  | 5.780                              |
| MOSTMEG          | R#13   | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 121      | 71       | 1.704  | 4.925                              |
| MOSTMEG          | MON#1  | Portugal | Portugal  | Portugal  | MP   | <i>RI</i>   | R   | R   | Upper E  | Pre-Ordovician | 124      | 65       | 1.908  | 5.513                              |
| MOSTMEG          | CM#1   | Portugal | Portugal  | Portugal  | XM   | <i>RI</i>   | R   | R   | Upper E  | Pre-Ordovician | 56       | 84       | 0.667  | 1.927                              |
| MOSTMEG          | RAP#1  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 62       | 63       | 0.984  | 2.844                              |
| MOSTMEG          | CBM#4  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 125      | 114      | 1.096  | 3.169                              |
| MOSTMEG          | CBM#5  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 103      | 80       | 1.288  | 3.721                              |
| MOSTMEG          | CBM#6  | Portugal | Portugal  | Portugal  | XM   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 132      | 93       | 1.419  | 4.102                              |
| MOSTMEG          | FOR#1  | Portugal | Portugal  | Portugal  | XM   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 99       | 56       | 1.768  | 5.109                              |
| MOSTMEG          | P#5    | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 129      | 72       | 1.792  | 5.178                              |
| MOSTMEG          | P#12   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 125      | 67       | 1.866  | 5.392                              |
| MOSTMEG          | P#13   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 137      | 62       | 2.210  | 6.386                              |
| MOSTMEG          | MT#1   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 136      | 47       | 2.894  | 8.363                              |
| MOSTMEG          | MT#9   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 124      | 59       | 2.102  | 6.074                              |
| MOSTMEG          | MT#12  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 73       | 53       | 1.377  | 3.981                              |
| MOSTMEG          | GAV#3  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 100      | 50       | 2.000  | 5.780                              |
| MOSTMEG          | CBM#1  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 127      | 57       | 2.228  | 6.439                              |
| MOSTMEG          | ING#1  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 121      | 40       | 3.025  | 8.742                              |
| MOSTMEG          | MT#11  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 61       | 63       | 0.968  | 2.798                              |
| MOSTMEG          | SCB2#1 | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 134      | 62       | 2.161  | 6.246                              |
| MOSTMEG          | ARG#1  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1270     | 57       | 22.281 | 64.391                             |
| MOSTMEG          | ARG#2  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 144      | 38       | 3.789  | 10.952                             |
| MOSTMEG          | P#11   | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 88       | 65       | 1.354  | 3.913                              |
| MOSTMEG          | R#12   | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 140      | 80       | 1.750  | 5.058                              |
| MOSTMEG          | FUN#1  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 138      | 68       | 2.029  | 5.865                              |
| MOSTMEG          | P#2    | Portugal | Portugal  | Portugal  | MP   | <i>MTI</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 122      | 67       | 1.821  | 5.262                              |
| MOSTMEG          | GAV#1  | Portugal | Portugal  | Portugal  | MP   | <i>Mtl</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 73       | 48       | 1.521  | 4.395                              |
| MOSTMEG          | GAV#2  | Portugal | Portugal  | Portugal  | MP   | <i>Mtl</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 138      | 52       | 2.654  | 7.670                              |
| sinari et al., 1 | BA-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 133      | 53       | 2.509  | 7.252                              |
| sinari et al., 1 | BA-5   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 132      | 52       | 2.538  | 7.336                              |
| sinari et al., 1 | BB-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 116      | 48       | 2.417  | 6.984                              |
| sinari et al., 1 | BB-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 108      | 64       | 1.688  | 4.877                              |
| sinari et al., 1 | RA-2   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 127.21   | 41.9     | 3.036  | 8.774                              |
| sinari et al., 1 | RA-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 140.09   | 37.28    | 3.758  | 10.860                             |
| sinari et al., 1 | RB-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 143.44   | 37.42    | 3.833  | 11.078                             |
| sinari et al., 1 | RB-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 143.04   | 32.44    | 4.409  | 12.743                             |
| sinari et al., 1 | RB-6   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 127.85   | 45.55    | 2.807  | 8.112                              |
| sinari et al., 1 | RB-8   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 76.23    | 44.19    | 1.725  | 4.985                              |
| sinari et al., 1 | AA-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 142      | 38       | 3.737  | 10.799                             |
| sinari et al., 1 | AA-2   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 145.79   | 45.46    | 3.207  | 9.268                              |
| sinari et al., 1 | AA-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 147.23   | 35.66    | 4.129  | 11.932                             |
| sinari et al., 1 | AA-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 137.24   | 32.23    | 4.258  | 12.306                             |
| sinari et al., 1 | A-1    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 106.23   | 48.13    | 2.207  | 6.379                              |
| sinari et al., 1 | A-2    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 82.7     | 54.7     | 1.512  | 4.369                              |
| sinari et al., 1 | A-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 135.53   | 41.07    | 3.300  | 9.537                              |
| sinari et al., 1 | B-3    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 61.3     | 55       | 1.115  | 3.221                              |
| sinari et al., 1 | B-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 116.3    | 63.8     | 1.823  | 5.268                              |

| Reference        | Sample | Country  | Location1 | Location2 | Type | id                 | id2 | id3 | Age (Ma)          | Event          | Rb (ppm) | Sr (ppm) | Rb/Sr | <sup>87</sup> Rb/ <sup>86</sup> Sr |
|------------------|--------|----------|-----------|-----------|------|--------------------|-----|-----|-------------------|----------------|----------|----------|-------|------------------------------------|
| sinari et al., 1 | B-5    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 63.4     | 59.7     | 1.062 | 3.069                              |
| sinari et al., 1 | C-2    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 161.1    | 98.1     | 1.642 | 4.746                              |
| sinari et al., 1 | C-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 146.4    | 71.5     | 2.048 | 5.917                              |
| sinari et al., 1 | FM-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 140.32   | 40.54    | 3.461 | 10.003                             |
| sinari et al., 1 | FM-2-1 | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 70.5     | 48.7     | 1.448 | 4.184                              |
| sinari et al., 1 | FM-2-2 | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 127      | 55.3     | 2.297 | 6.637                              |
| sinari et al., 1 | FM-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 160.8    | 65.8     | 2.444 | 7.062                              |
| sinari et al., 1 | FM-10  | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 161.9    | 50.4     | 3.212 | 9.284                              |
| xeira et al., 2  | DJ1    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 67       | 295      | 0.227 | 0.656                              |
| xeira et al., 2  | RI4    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 163      | 108      | 1.509 | 4.362                              |
| xeira et al., 2  | PI5    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 175      | 99       | 1.768 | 5.109                              |
| xeira et al., 2  | EV1    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 172      | 143      | 1.203 | 3.476                              |
| aseca et al., 2  | 110194 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 107      | 44       | 2.432 | 7.028                              |
| aseca et al., 2  | 110216 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 110      | 71       | 1.549 | 4.477                              |
| aseca et al., 2  | 110190 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 87       | 67       | 1.299 | 3.753                              |
| aseca et al., 2  | 111967 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 87       | 120      | 0.725 | 2.095                              |
| ijos et al., 20  | SSA-12 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 123      | 139      | 0.885 | 2.557                              |
| ijos et al., 20  | SIA-12 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 134      | 66       | 2.030 | 5.868                              |
| ijos et al., 20  | SIA-22 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 134      | 43.2     | 3.102 | 8.964                              |
| ijos et al., 20  | SIA-31 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 130      | 79.5     | 1.635 | 4.726                              |
| ijos et al., 20  | SIA-3  | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 112      | 101      | 1.109 | 3.205                              |
| ijos et al., 20  | SIA-25 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 135      | 83.7     | 1.613 | 4.661                              |
| aseca et al., 2  | 110191 | Spain    | Spain     | Spain     | C    | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 133      | 111      | 1.198 | 3.463                              |
| aseca et al., 2  | 110192 | Spain    | Spain     | Spain     | C    | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 134      | 113      | 1.186 | 3.427                              |
| ijos et al., 20  | SIA-33 | Spain    | Spain     | Spain     | MG   | <i>R_ES</i>        | BG  | BG  | Late E            | Pre-Ordovician | 121      | 93       | 1.301 | 3.760                              |
| ijos et al., 20  | FG-4   | Spain    | Spain     | Spain     | MP   | <i>R_ES</i>        | BG  | BG  | Late E            | Pre-Ordovician | 136      | 113      | 1.204 | 3.478                              |
| ijos et al., 19  | GUB-26 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 146      | 132      | 1.106 | 3.197                              |
| ijos et al., 20  | CR-5   | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 137      | 68       | 2.015 | 5.823                              |
| ijos et al., 20  | SSA-20 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 178      | 89       | 2.000 | 5.780                              |
| ijos et al., 20  | SSA-30 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 197      | 49.2     | 4.004 | 11.572                             |
| ijos et al., 20  | SSA-15 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 191      | 63.7     | 2.998 | 8.665                              |
| ijos et al., 19  | GUB-22 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 176      | 169      | 1.041 | 3.010                              |
| ijos et al., 19  | GUB-23 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 145      | 170      | 0.853 | 2.465                              |
| aseca et al., 1  | 93202  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 226      | 275      | 0.822 | 2.375                              |
| aseca et al., 1  | 93198  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 175      | 237      | 0.738 | 2.134                              |
| aseca et al., 1  | 93208  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 142      | 248      | 0.573 | 1.655                              |
| aseca et al., 1  | 90961  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 112      | 170      | 0.659 | 1.904                              |
| aseca et al., 1  | 92196  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 148      | 220      | 0.673 | 1.944                              |
| aseca et al., 1  | 77758  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 146      | 140      | 1.043 | 3.014                              |
| aseca et al., 1  | 92194  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 174      | 129      | 1.349 | 3.898                              |
| aseca et al., 1  | 92199  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 179      | 95       | 1.884 | 5.445                              |
| aseca et al., 2  | 77758a | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 146      | 140      | 1.043 | 3.014                              |
| aseca et al., 2  | 96874  | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 180      | 163      | 1.104 | 3.191                              |
| aseca et al., 2  | 111031 | Spain    | Spain     | Spain     | PG   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 214      | 80       | 2.675 | 7.731                              |
| aseca et al., 2  | 112025 | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 191      | 29       | 6.586 | 19.034                             |
| aseca et al., 2  | 112026 | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 148      | 138      | 1.072 | 3.099                              |
| aseca et al., 2  | 112027 | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 158      | 229      | 0.690 | 1.994                              |
| aseca et al., 2  | 108579 | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 232      | 123      | 1.886 | 5.451                              |
| aseca et al., 2  | 108583 | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 134      | 150      | 0.893 | 2.582                              |

| Reference       | Sample        | Country  | Location1      | Location2             | Type                | id              | id2     | id3     | Age (Ma)                         | Event                            | Rb (ppm) | Sr (ppm) | Rb/Sr  | <sup>87</sup> Rb/ <sup>86</sup> Sr |
|-----------------|---------------|----------|----------------|-----------------------|---------------------|-----------------|---------|---------|----------------------------------|----------------------------------|----------|----------|--------|------------------------------------|
| aseca et al., 2 | 108582        | Spain    | Spain          | Spain                 | GRL                 | <b>NZCI</b>     | DG      | DG      | ?                                | Pre-Ordovician                   | 187      | 188      | 0.995  | 2.875                              |
| aseca et al., 1 | VO-16         | Spain    | Spain          | Spain                 | OG                  | <b>SCS</b>      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 66       | 121      | 0.545  | 1.576                              |
| aseca et al., 1 | VO-19         | Spain    | Spain          | Spain                 | OG                  | <b>SCS</b>      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 122      | 182      | 0.670  | 1.937                              |
| aseca et al., 1 | 92193         | Spain    | Spain          | Spain                 | OG                  | <b>SCS</b>      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 245      | 87       | 2.816  | 8.139                              |
| aseca et al., 1 | T-370         | Spain    | Spain          | Spain                 | OG                  | <b>SCS</b>      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 200      | 107      | 1.869  | 5.402                              |
| aseca et al., 1 | VI-3          | Spain    | Spain          | Spain                 | OG                  | <b>SCS</b>      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 376      | 14       | 26.857 | 77.617                             |
| aseca et al., 1 | 92566         | Spain    | Spain          | Spain                 | PG                  | <b>SCS</b>      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 105      | 196      | 0.536  | 1.548                              |
| aseca et al., 1 | U-50          | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 119      | 252      | 0.472  | 1.365                              |
| aseca et al., 1 | U-49          | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 88       | 281      | 0.313  | 0.905                              |
| aseca et al., 1 | U-92          | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 98       | 169      | 0.580  | 1.676                              |
| aseca et al., 1 | U-93          | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 155      | 432      | 0.359  | 1.037                              |
| aseca et al., 1 | U-145         | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 97       | 186      | 0.522  | 1.507                              |
| aseca et al., 1 | U-146         | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 151      | 419      | 0.360  | 1.042                              |
| aseca et al., 1 | U-147         | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 122      | 440      | 0.277  | 0.801                              |
| aseca et al., 1 | U-152         | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 85       | 240      | 0.354  | 1.024                              |
| aseca et al., 1 | U-155         | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 52       | 247      | 0.211  | 0.608                              |
| aseca et al., 1 | U-157         | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 64       | 282      | 0.227  | 0.656                              |
| aseca et al., 1 | U-141         | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 58       | 258      | 0.225  | 0.650                              |
| aseca et al., 1 | U-90          | Spain    | Spain          | Spain                 | PX                  | <b>PPG</b>      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 126      | 233      | 0.541  | 1.563                              |
| aseca et al., 1 | U-91          | Spain    | Spain          | Spain                 | PX                  | <b>PPG</b>      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 130      | 162      | 0.802  | 2.319                              |
| aseca et al., 1 | U-42          | Spain    | Spain          | Spain                 | PX                  | <b>PPG</b>      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 148      | 151      | 0.980  | 2.833                              |
| aseca et al., 1 | U-96          | Spain    | Spain          | Spain                 | PX                  | <b>PPG</b>      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 108      | 141      | 0.766  | 2.214                              |
| aseca et al., 1 | U-10          | Spain    | Spain          | Spain                 | PX                  | <b>PPG</b>      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 60       | 76       | 0.789  | 2.282                              |
| Lopes 2015      | CR- 200538    | Spain    | Spain          | Spain                 | PG                  | <b>Escoural</b> | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 93       | 165      | 0.564  | 1.629                              |
| Lopes 2015      | CR- 200547    | Spain    | Spain          | Spain                 | PG                  | <b>Escoural</b> | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 109      | 144      | 0.757  | 2.188                              |
| Lopes 2015      | CR- 201472    | Spain    | Spain          | Spain                 | PG                  | <b>Escoural</b> | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 211      | 110      | 1.918  | 5.544                              |
| Lopes 2015      | CR- 201512    | Spain    | Spain          | Spain                 | PG                  | <b>Escoural</b> | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 81       | 113      | 0.717  | 2.072                              |
| Lopes 2015      | CR- 201543    | Spain    | Spain          | Spain                 | PG                  | <b>Escoural</b> | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 154      | 144      | 1.069  | 3.091                              |
| Lopes 2015      | CR- 201611    | Spain    | Spain          | Spain                 | PG                  | <b>Escoural</b> | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 75       | 154      | 0.487  | 1.407                              |
| Lopes 2015      | CR- 201660    | Spain    | Spain          | Spain                 | PG                  | <b>Escoural</b> | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 115      | 147      | 0.782  | 2.261                              |
| MOSTMEG         | G_MATOS#1     | Portugal | Iberian Massif | Matos                 | Matos Granodiorite  | GMatos          | GMatos  | Matos   | Cambrian-Ordovician              | Cambrian-Ordovician              | 134      | 189      | 0.709  | 2.049                              |
| MOSTMEG         | G_ZEB#1       | Portugal | Iberian Massif | Zebreira              | ZEB-W               | GZEB            | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 231      | 73       | 3.164  | 9.145                              |
| MOSTMEG         | G_ZEB#4       | Portugal | Iberian Massif | Zebreira              | ZEB-W               | GZEB            | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 278      | 12       | 23.167 | 66.952                             |
| MOSTMEG         | G_MARCELINA#1 | Portugal | Iberian Massif | Zebreira              | Porphyritic granite | GZEB            | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 223      | 111      | 2.009  | 5.806                              |
| MOSTMEG         | G_IDN#2       | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | OIN-G4              | G4-OIN          | G4-OIN  | OIN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 273      | 58       | 4.707  | 13.603                             |
| MOSTMEG         | G_BATÃO#1     | Portugal | Iberian Massif | Batão                 | BATÃO               | BATÃO           | BATÃO   | BATÃO   | Cambrian-Ordovician              | Cambrian-Ordovician              | 86       | 379      | 0.227  | 0.656                              |
| MOSTMEG         | G_STEX#2      | Portugal | Iberian Massif | Salvaterra do Extremo | STEX                | STEX            | STEX    | STEX    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 402      | 41       | 9.805  | 28.336                             |
| MOSTMEG         | G_SEG#1       | Portugal | Iberian Massif | Segura                | SEG                 | G1-SEG          | G1-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 845      | 164      | 5.152  | 14.891                             |
| MOSTMEG         | G_SEG#2       | Portugal | Iberian Massif | Segura                | SEG                 | G2-SEG          | G2-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 494      | 34       | 14.529 | 41.990                             |
| MOSTMEG         | G_SEG#4       | Portugal | Iberian Massif | Segura                | SEG                 | G3-SEG          | G3-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 214      | 44       | 4.864  | 14.056                             |
| MOSTMEG         | G_MONS#2      | Portugal | Iberian Massif | Penamacor-Monsanto    | PM-G3               | PM-G3           | PM-G3   | PM      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 312      | 51       | 6.118  | 17.680                             |
| MOSTMEG         | G_MED#1       | Portugal | Iberian Massif | Penamacor-Monsanto    | PM-G6               | PM-G6           | PM-G6   | PM      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 511      | 27       | 18.926 | 54.696                             |
| MOSTMEG         | G_SEIXO#1     | Portugal | Iberian Massif | Orca                  | Orca-G2             | Orca-G2         | Orca-G2 | ORCA    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 360      | 42       | 8.571  | 24.771                             |
| MOSTMEG         | G_CB#3        | Portugal | Iberian Massif | Castelo Branco        | CB-G5               | CB-G5           | CB-G5   | CB      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 303      | 22       | 13.773 | 39.803                             |
| MOSTMEG         | G_FUN#2       | Portugal | Iberian Massif | Fundão                | FUN-G2              | FUN-G2          | FUN-G2  | FUN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 104      | 243      | 0.428  | 1.237                              |
| MOSTMEG         | G_FUN#4       | Portugal | Iberian Massif | Fundão                | FUN-G3              | FUN-G3          | FUN-G3  | FUN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 99       | 52       | 1.904  | 5.502                              |
| MOSTMEG         | G_LP#1        | Portugal | Iberian Massif | Fundão                | FUN-AT              | FUN-AT          | FUN-AT  | ATALAIA | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 407      | 48       | 8.479  | 24.505                             |
| MOSTMEG         | G_CAP#1       | Portugal | Iberian Massif | Capinha               | CAP                 | CAP             | CAP     | CAP     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 260      | 66       | 3.939  | 11.385                             |
| MOSTMEG         | G_ARG#1       | Portugal | Iberian Massif | Argemela              | ARG                 | ARG             | ARG     | ARG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1680     | 291      | 5.773  | 16.685                             |

| Reference | Sample      | Country  | Location1      | Location2             | Type                   | id         | id2        | id3        | Age (Ma)                         | Event                            | Rb (ppm) | Sr (ppm) | Rb/Sr   | <sup>87</sup> Rb/ <sup>86</sup> Sr |
|-----------|-------------|----------|----------------|-----------------------|------------------------|------------|------------|------------|----------------------------------|----------------------------------|----------|----------|---------|------------------------------------|
| MOSTMEG   | G_ARG#2     | Portugal | Iberian Massif | Argemela              | ARG                    | ARG        | ARG        | ARG        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1110     | 29       | 38.276  | 110.617                            |
| MOSTMEG   | SCB2#11     | Portugal | Iberian Massif | Panasqueira           | PAN                    | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 518      | 24       | 21.583  | 62.376                             |
| MOSTMEG   | SCB2#15     | Portugal | Iberian Massif | Panasqueira           | PAN                    | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 586      | 142      | 4.127   | 11.926                             |
| MOSTMEG   | Gf_MATOS#5  | Portugal | Iberian Massif | Matos                 | Granitic dyke          | Matos-Dyke | Matos-Dyke | Matos-Dyke | ?                                | ?                                | 26       | 153      | 0.170   | 0.491                              |
| MOSTMEG   | Gf_FURÃO#1  | Portugal | Iberian Massif | Zebreira              | Porphyritic dyke       | ZEB-Dyke   | ZEB-Dyke   | ZEB-Dyke   | ?                                | ?                                | 197      | 122      | 1.615   | 4.667                              |
| MOSTMEG   | Gf_SEG#3    | Portugal | Iberian Massif | Segura                | aplite-pegmatite dyke  | SEG-Dyke   | SEG-Dyke   | SEG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1500     | 236      | 6.356   | 18.369                             |
| MOSTMEG   | Gf_SEG#5    | Portugal | Iberian Massif | Segura                | aplite-pegmatite dyke  | SEG-Dyke   | SEG-Dyke   | SEG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1050     | 261      | 4.023   | 11.626                             |
| MOSTMEG   | Gf_CRESPO#2 | Portugal | Iberian Massif | Salvaterra do Extremo | Granitic dyke          | STEX-Dyke  | STEX-Dyke  | STEX-Dyke  | ?                                | ?                                | 97       | 202      | 0.480   | 1.388                              |
| MOSTMEG   | Gf_MONS#1A  | Portugal | Iberian Massif | Penamacor-Monsanto    | Pegmatitic dyke        | PM-Dyke    | PM-Dyke    | PM-Dyke    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 568      | 25       | 22.720  | 65.661                             |
| MOSTMEG   | Gf_IDN#2    | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Aplite dyke            | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 441      | 6        | 73.500  | 212.415                            |
| MOSTMEG   | Gf_IDN#4    | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Granitic dyke          | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 697      | 320      | 2.178   | 6.295                              |
| MOSTMEG   | Gf_MDCH#1   | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Aplite dyke            | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 277      | 5        | 55.400  | 160.106                            |
| MOSTMEG   | Gf_ARG#1    | Portugal | Iberian Massif | Argemela              | Pegmatitic dyke        | ARG-Dyke   | ARG-Dyke   | ARG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1480     | 63       | 23.492  | 67.892                             |
| MOSTMEG   | Gf_ARG#2    | Portugal | Iberian Massif | Argemela              | Aplite dyke            | ARG-Dyke   | ARG-Dyke   | ARG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 926      | 4        | 231.500 | 669.035                            |
| MOSTMEG   | SMN1#4      | Portugal | Iberian Massif | Panasqueira           | aplite-pegmatitic dyke | PAN-Dyke   | PAN-Dyke   | PAN-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 233      | 41       | 5.683   | 16.424                             |
| MOSTMEG   | P11_G       | Portugal | Iberian Massif | Panasqueira           | Greisen                | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 756      | 12       | 63.000  | 182.070                            |

| Reference        | Sample | Country  | Location1 | Location2 | Type | id          | id2 | id3 | Age (Ma) | Event          | $^{87}\text{Sr}/^{86}\text{Sr}_{(0)}$ | erro (2s) | T (a)     | $^{87}\text{Sr}/^{88}\text{Sr}$ |
|------------------|--------|----------|-----------|-----------|------|-------------|-----|-----|----------|----------------|---------------------------------------|-----------|-----------|---------------------------------|
| MOSTMEG          | R#1    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 0.751354                              | 0.000057  | 541000000 | 0.089712                        |
| MOSTMEG          | R#5    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 0.751268                              | 0.000048  | 541000000 | 0.089701                        |
| MOSTMEG          | R#8    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 0.752945                              | 0.000080  | 541000000 | 0.089902                        |
| MOSTMEG          | R#13   | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 0.745150                              | 0.000044  | 541000000 | 0.088971                        |
| MOSTMEG          | MON#1  | Portugal | Portugal  | Portugal  | MP   | <i>RI</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.747867                              | 0.000050  | 541000000 | 0.089295                        |
| MOSTMEG          | CM#1   | Portugal | Portugal  | Portugal  | XM   | <i>RI</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.723840                              | 0.000042  | 541000000 | 0.086426                        |
| MOSTMEG          | RAP#1  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.736581                              | 0.000059  | 541000000 | 0.087948                        |
| MOSTMEG          | CBM#4  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.736602                              | 0.000022  | 541000000 | 0.087950                        |
| MOSTMEG          | CBM#5  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.737731                              | 0.000012  | 541000000 | 0.088085                        |
| MOSTMEG          | CBM#6  | Portugal | Portugal  | Portugal  | XM   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.744904                              | 0.000024  | 541000000 | 0.088942                        |
| MOSTMEG          | FOR#1  | Portugal | Portugal  | Portugal  | XM   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.745913                              | 0.000052  | 541000000 | 0.089062                        |
| MOSTMEG          | P#5    | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.744478                              | 0.000025  | 541000000 | 0.088891                        |
| MOSTMEG          | P#12   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.750575                              | 0.000019  | 541000000 | 0.089619                        |
| MOSTMEG          | P#13   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.756579                              | 0.000012  | 541000000 | 0.090336                        |
| MOSTMEG          | MT#1   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.760747                              | 0.000040  | 541000000 | 0.090833                        |
| MOSTMEG          | MT#9   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.751841                              | 0.000011  | 541000000 | 0.089770                        |
| MOSTMEG          | MT#12  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.738511                              | 0.000017  | 541000000 | 0.088178                        |
| MOSTMEG          | GAV#3  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.746968                              | 0.000020  | 541000000 | 0.089188                        |
| MOSTMEG          | CBM#1  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.755196                              | 0.000010  | 541000000 | 0.090170                        |
| MOSTMEG          | ING#1  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.768060                              | 0.000018  | 541000000 | 0.091706                        |
| MOSTMEG          | MT#11  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.729831                              | 0.000017  | 541000000 | 0.087142                        |
| MOSTMEG          | SCB2#1 | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.752229                              | 0.000008  | 541000000 | 0.089816                        |
| MOSTMEG          | ARG#1  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.003950                              | 0.000029  | 541000000 | 0.119872                        |
| MOSTMEG          | ARG#2  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.768735                              | 0.000030  | 541000000 | 0.091787                        |
| MOSTMEG          | P#11   | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.739215                              | 0.000012  | 541000000 | 0.088262                        |
| MOSTMEG          | R#12   | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.748781                              | 0.000006  | 541000000 | 0.089405                        |
| MOSTMEG          | FUN#1  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.746096                              | 0.000012  | 541000000 | 0.089084                        |
| MOSTMEG          | P#2    | Portugal | Portugal  | Portugal  | MP   | <i>MTI</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.745351                              | 0.000017  | 541000000 | 0.088995                        |
| MOSTMEG          | GAV#1  | Portugal | Portugal  | Portugal  | MP   | <i>Mtl</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.739957                              | 0.000016  | 541000000 | 0.088351                        |
| MOSTMEG          | GAV#2  | Portugal | Portugal  | Portugal  | MP   | <i>Mtl</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.760070                              | 0.000020  | 541000000 | 0.090752                        |
| sinari et al., 1 | BA-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.76000                               | 0.00020   | 541000000 | 0.090744                        |
| sinari et al., 1 | BA-5   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.76077                               | 0.00018   | 541000000 | 0.090836                        |
| sinari et al., 1 | BB-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.75742                               | 0.00016   | 541000000 | 0.090436                        |
| sinari et al., 1 | BB-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.74629                               | 0.00020   | 541000000 | 0.089107                        |
| sinari et al., 1 | RA-2   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.76696                               | 0.00018   | 541000000 | 0.091575                        |
| sinari et al., 1 | RA-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.77992                               | 0.00012   | 541000000 | 0.093122                        |
| sinari et al., 1 | RB-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.78085                               | 0.00012   | 541000000 | 0.093233                        |
| sinari et al., 1 | RB-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.79150                               | 0.00010   | 541000000 | 0.094505                        |
| sinari et al., 1 | RB-6   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.76237                               | 0.00018   | 541000000 | 0.091027                        |
| sinari et al., 1 | RB-8   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.74297                               | 0.00012   | 541000000 | 0.088711                        |
| sinari et al., 1 | AA-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.77525                               | 0.00024   | 541000000 | 0.092565                        |
| sinari et al., 1 | AA-2   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.76659                               | 0.00012   | 541000000 | 0.091531                        |
| sinari et al., 1 | AA-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.78191                               | 0.00008   | 541000000 | 0.093360                        |
| sinari et al., 1 | AA-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.78230                               | 0.00010   | 541000000 | 0.093407                        |
| sinari et al., 1 | A-1    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.75903                               | 0.00010   | 541000000 | 0.090628                        |
| sinari et al., 1 | A-2    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.74313                               | 0.00014   | 541000000 | 0.088730                        |
| sinari et al., 1 | A-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.77252                               | 0.00020   | 541000000 | 0.092239                        |
| sinari et al., 1 | B-3    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.73522                               | 0.00016   | 541000000 | 0.087785                        |
| sinari et al., 1 | B-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.74648                               | 0.00018   | 541000000 | 0.089130                        |

| Reference        | Sample | Country  | Location1 | Location2 | Type | id                 | id2 | id3 | Age (Ma)          | Event          | $^{87}\text{Sr}/^{86}\text{Sr}_{(0)}$ | erro (2s) | T (a)     | $^{87}\text{Sr}/^{88}\text{Sr}$ |
|------------------|--------|----------|-----------|-----------|------|--------------------|-----|-----|-------------------|----------------|---------------------------------------|-----------|-----------|---------------------------------|
| sinari et al., 1 | B-5    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.73495                               | 0.00030   | 541000000 | 0.087753                        |
| sinari et al., 1 | C-2    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.74318                               | 0.00022   | 541000000 | 0.088736                        |
| sinari et al., 1 | C-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.75004                               | 0.00024   | 541000000 | 0.089555                        |
| sinari et al., 1 | FM-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.76965                               | 0.00014   | 541000000 | 0.091896                        |
| sinari et al., 1 | FM-2-1 | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.74176                               | 0.00012   | 541000000 | 0.088566                        |
| sinari et al., 1 | FM-2-2 | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.75245                               | 0.00014   | 541000000 | 0.089843                        |
| sinari et al., 1 | FM-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.75334                               | 0.00010   | 541000000 | 0.089949                        |
| sinari et al., 1 | FM-10  | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.76277                               | 0.00016   | 541000000 | 0.091075                        |
| xeira et al., 2  | DJ1    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 0.7194                                | 0.0000012 | 541000000 | 0.085896                        |
| xeira et al., 2  | RI4    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 0.7351                                | 0.0000012 | 541000000 | 0.087771                        |
| xeira et al., 2  | PI5    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 0.7429                                | 0.0000014 | 541000000 | 0.088702                        |
| xeira et al., 2  | EV1    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 0.7291                                | 0.0000014 | 541000000 | 0.087055                        |
| aseca et al., 2  | 110194 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.749837                              | 0.000006  | 541000000 | 0.089531                        |
| aseca et al., 2  | 110216 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.73824                               | 0.000008  | 541000000 | 0.088146                        |
| aseca et al., 2  | 110190 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.730853                              | 0.000004  | 541000000 | 0.087264                        |
| aseca et al., 2  | 111967 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.719391                              | 0.000004  | 541000000 | 0.085895                        |
| ijos et al., 20  | SSA-12 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.72947                               | 0.000018  | 541000000 | 0.087099                        |
| ijos et al., 20  | SIA-12 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.72947                               | 0.000018  | 541000000 | 0.087099                        |
| ijos et al., 20  | SIA-22 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.75258                               | 0.000017  | 541000000 | 0.089858                        |
| ijos et al., 20  | SIA-31 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.74182                               | 0.000018  | 541000000 | 0.088573                        |
| ijos et al., 20  | SIA-3  | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.72817                               | 0.000016  | 541000000 | 0.086943                        |
| ijos et al., 20  | SIA-25 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.73939                               | 0.000016  | 541000000 | 0.088283                        |
| aseca et al., 2  | 110191 | Spain    | Spain     | Spain     | C    | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.733814                              | 0.000005  | 541000000 | 0.087617                        |
| aseca et al., 2  | 110192 | Spain    | Spain     | Spain     | C    | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.733154                              | 0.000005  | 541000000 | 0.087539                        |
| ijos et al., 20  | SIA-33 | Spain    | Spain     | Spain     | MG   | <i>R_ES</i>        | BG  | BG  | Late E            | Pre-Ordovician | 0.73693                               | 0.000019  | 541000000 | 0.087989                        |
| ijos et al., 20  | FG-4   | Spain    | Spain     | Spain     | MP   | <i>R_ES</i>        | BG  | BG  | Late E            | Pre-Ordovician | 0.72747                               | 0.000026  | 541000000 | 0.086860                        |
| ijos et al., 19  | GUB-26 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.72059                               | 0.000001  | 541000000 | 0.086038                        |
| ijos et al., 20  | CR-5   | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.74296                               | 0.000022  | 541000000 | 0.088709                        |
| ijos et al., 20  | SSA-20 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.74637                               | 0.000021  | 541000000 | 0.089117                        |
| ijos et al., 20  | SSA-30 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.77767                               | 0.00002   | 541000000 | 0.092854                        |
| ijos et al., 20  | SSA-15 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.76484                               | 0.000021  | 541000000 | 0.091322                        |
| ijos et al., 19  | GUB-22 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.71923                               | 0.000001  | 541000000 | 0.085876                        |
| ijos et al., 19  | GUB-23 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.71768                               | 0.000001  | 541000000 | 0.085691                        |
| aseca et al., 1  | 93202  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.73084                               | 0.000003  | 541000000 | 0.087262                        |
| aseca et al., 1  | 93198  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.72757                               | 0.000003  | 541000000 | 0.086872                        |
| aseca et al., 1  | 93208  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.726                                 | 0.000002  | 541000000 | 0.086684                        |
| aseca et al., 1  | 90961  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.72952                               | 0.000003  | 541000000 | 0.087105                        |
| aseca et al., 1  | 92196  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.72806                               | 0.000003  | 541000000 | 0.086930                        |
| aseca et al., 1  | 77758  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.73531                               | 0.000003  | 541000000 | 0.087796                        |
| aseca et al., 1  | 92194  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.73301                               | 0.000003  | 541000000 | 0.087521                        |
| aseca et al., 1  | 92199  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.74084                               | 0.000002  | 541000000 | 0.088456                        |
| aseca et al., 2  | 77758a | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.73531                               | 0.000005  | 541000000 | 0.087796                        |
| aseca et al., 2  | 96874  | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.732933                              | 0.000007  | 541000000 | 0.087512                        |
| aseca et al., 2  | 111031 | Spain    | Spain     | Spain     | PG   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.755385                              | 0.000005  | 541000000 | 0.090193                        |
| aseca et al., 2  | 112025 | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.804386                              | 0.000005  | 541000000 | 0.096044                        |
| aseca et al., 2  | 112026 | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.72985                               | 0.000004  | 541000000 | 0.087144                        |
| aseca et al., 2  | 112027 | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.726581                              | 0.000004  | 541000000 | 0.086754                        |
| aseca et al., 2  | 108579 | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.744538                              | 0.000005  | 541000000 | 0.088898                        |
| aseca et al., 2  | 108583 | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.730434                              | 0.000006  | 541000000 | 0.087214                        |

| Reference       | Sample        | Country  | Location1      | Location2             | Type                | id              | id2     | id3     | Age (Ma)                         | Event                            | <sup>87</sup> Sr/ <sup>86</sup> Sr <sub>(0)</sub> | erro (2s) | T (a)     | <sup>87</sup> Sr/ <sup>88</sup> Sr |
|-----------------|---------------|----------|----------------|-----------------------|---------------------|-----------------|---------|---------|----------------------------------|----------------------------------|---|-----------|-----------|------------------------------------|
| aseca et al., 2 | 108582        | Spain    | Spain          | Spain                 | GRL                 | <b>NZCI</b>     | DG      | DG      | ?                                | Pre-Ordovician                   | 0.731984  | 0.000006  | 541000000 | 0.087399                           |
| aseca et al., 1 | VO-16         | Spain    | Spain          | Spain                 | OG                  | <b>SCS</b>      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 0.72338   | 0.000005  | 541000000 | 0.086372                           |
| aseca et al., 1 | VO-19         | Spain    | Spain          | Spain                 | OG                  | <b>SCS</b>      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 0.72359   | 0.000009  | 541000000 | 0.086397                           |
| aseca et al., 1 | 92193         | Spain    | Spain          | Spain                 | OG                  | <b>SCS</b>      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 0.76281   | 0.000003  | 541000000 | 0.091080                           |
| aseca et al., 1 | T-370         | Spain    | Spain          | Spain                 | OG                  | <b>SCS</b>      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 0.74623   | 0.000003  | 541000000 | 0.089100                           |
| aseca et al., 1 | VI-3          | Spain    | Spain          | Spain                 | OG                  | <b>SCS</b>      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 1.29063   | 0.000004  | 541000000 | 0.154101                           |
| aseca et al., 1 | 92566         | Spain    | Spain          | Spain                 | PG                  | <b>SCS</b>      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 0.7203  | 0.000003  | 541000000 | 0.086004                           |
| aseca et al., 1 | U-50          | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.71546   | 0.000003  | 541000000 | 0.085426                           |
| aseca et al., 1 | U-49          | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.71514   | 0.000003  | 541000000 | 0.085388                           |
| aseca et al., 1 | U-92          | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.71815   | 0.000003  | 541000000 | 0.085747                           |
| aseca et al., 1 | U-93          | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.71038   | 0.000002  | 541000000 | 0.084819                           |
| aseca et al., 1 | U-145         | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.71696   | 0.000001  | 541000000 | 0.085605                           |
| aseca et al., 1 | U-146         | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.71182   | 0.000002  | 541000000 | 0.084991                           |
| aseca et al., 1 | U-147         | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.70982   | 0.000001  | 541000000 | 0.084753                           |
| aseca et al., 1 | U-152         | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.71645   | 0.000001  | 541000000 | 0.085544                           |
| aseca et al., 1 | U-155         | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.71255   | 0.000001  | 541000000 | 0.085078                           |
| aseca et al., 1 | U-157         | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.71235   | 0.000001  | 541000000 | 0.085055                           |
| aseca et al., 1 | U-141         | Spain    | Spain          | Spain                 | FX                  | <b>FPG</b>      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.71578   | 0.000006  | 541000000 | 0.085464                           |
| aseca et al., 1 | U-90          | Spain    | Spain          | Spain                 | PX                  | <b>PPG</b>      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 0.72028   | 0.000003  | 541000000 | 0.086001                           |
| aseca et al., 1 | U-91          | Spain    | Spain          | Spain                 | PX                  | <b>PPG</b>      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 0.7203  | 0.000003  | 541000000 | 0.086004                           |
| aseca et al., 1 | U-42          | Spain    | Spain          | Spain                 | PX                  | <b>PPG</b>      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 0.72164   | 0.000006  | 541000000 | 0.086164                           |
| aseca et al., 1 | U-96          | Spain    | Spain          | Spain                 | PX                  | <b>PPG</b>      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 0.72694   | 0.000005  | 541000000 | 0.086797                           |
| aseca et al., 1 | U-10          | Spain    | Spain          | Spain                 | PX                  | <b>PPG</b>      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 0.71465   | 0.000009  | 541000000 | 0.085329                           |
| Lopes 2015      | CR- 200538    | Spain    | Spain          | Spain                 | PG                  | <b>Escoural</b> | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.719863  | 0.000019  | 541000000 | 0.085952                           |
| Lopes 2015      | CR- 200547    | Spain    | Spain          | Spain                 | PG                  | <b>Escoural</b> | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.721997  | 0.000017  | 541000000 | 0.086206                           |
| Lopes 2015      | CR- 201472    | Spain    | Spain          | Spain                 | PG                  | <b>Escoural</b> | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.739256  | 0.000018  | 541000000 | 0.088267                           |
| Lopes 2015      | CR- 201512    | Spain    | Spain          | Spain                 | PG                  | <b>Escoural</b> | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.720274  | 0.000019  | 541000000 | 0.086001                           |
| Lopes 2015      | CR- 201543    | Spain    | Spain          | Spain                 | PG                  | <b>Escoural</b> | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.727674  | 0.000025  | 541000000 | 0.086884                           |
| Lopes 2015      | CR- 201611    | Spain    | Spain          | Spain                 | PG                  | <b>Escoural</b> | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.718287  | 0.000020  | 541000000 | 0.085763                           |
| Lopes 2015      | CR- 201660    | Spain    | Spain          | Spain                 | PG                  | <b>Escoural</b> | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.724881  | 0.000017  | 541000000 | 0.086551                           |
| MOSTMEG         | G_MATOS#1     | Portugal | Iberian Massif | Matos                 | Matos Granodiorite  | GMatos          | GMatos  | Matos   | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.717760  | 0.000022  | 480000000 | 0.085701                           |
| MOSTMEG         | G_ZEB#1       | Portugal | Iberian Massif | Zebreira              | ZEB-W               | GZEB            | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.771056  | 0.000007  | 480000000 | 0.092064                           |
| MOSTMEG         | G_ZEB#4       | Portugal | Iberian Massif | Zebreira              | ZEB-W               | GZEB            | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 1.183502  | 0.000011  | 480000000 | 0.141310                           |
| MOSTMEG         | G_MARCELINA#1 | Portugal | Iberian Massif | Zebreira              | Porphyritic granite | GZEB            | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.735861  | 0.000005  | 480000000 | 0.087862                           |
| MOSTMEG         | G_IDN#2       | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | OIN-G4              | G4-OIN          | G4-OIN  | OIN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.815475  | 0.000016  | 480000000 | 0.097368                           |
| MOSTMEG         | G_BATÃO#1     | Portugal | Iberian Massif | Batão                 | BATÃO               | BATÃO           | BATÃO   | BATÃO   | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.710495  | 0.000007  | 480000000 | 0.084833                           |
| MOSTMEG         | G_STEX#2      | Portugal | Iberian Massif | Salvaterra do Extremo | STEX                | STEX            | STEX    | STEX    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.917362  | 0.000005  | 310000000 | 0.109533                           |
| MOSTMEG         | G_SEG#1       | Portugal | Iberian Massif | Segura                | SEG                 | G1-SEG          | G1-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.788601  | 0.000006  | 310000000 | 0.094159                           |
| MOSTMEG         | G_SEG#2       | Portugal | Iberian Massif | Segura                | SEG                 | G2-SEG          | G2-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.928217  | 0.000016  | 310000000 | 0.110829                           |
| MOSTMEG         | G_SEG#4       | Portugal | Iberian Massif | Segura                | SEG                 | G3-SEG          | G3-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.774139  | 0.000009  | 310000000 | 0.092432                           |
| MOSTMEG         | G_MONS#2      | Portugal | Iberian Massif | Penamacor-Monsanto    | PM-G3               | PM-G3           | PM-G3   | PM      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.790066  | 0.000006  | 310000000 | 0.094334                           |
| MOSTMEG         | G_MED#1       | Portugal | Iberian Massif | Penamacor-Monsanto    | PM-G6               | PM-G6           | PM-G6   | PM      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.968149  | 0.000005  | 310000000 | 0.115597                           |
| MOSTMEG         | G_SEIXO#1     | Portugal | Iberian Massif | Orca                  | Orca-G2             | Orca-G2         | Orca-G2 | ORCA    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.819275  | 0.000011  | 310000000 | 0.097821                           |
| MOSTMEG         | G_CB#3        | Portugal | Iberian Massif | Castelo Branco        | CB-G5               | CB-G5           | CB-G5   | CB      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.906934  | 0.000014  | 310000000 | 0.108288                           |
| MOSTMEG         | G_FUN#2       | Portugal | Iberian Massif | Fundão                | FUN-G2              | FUN-G2          | FUN-G2  | FUN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.712819  | 0.000040  | 480000000 | 0.085111                           |
| MOSTMEG         | G_FUN#4       | Portugal | Iberian Massif | Fundão                | FUN-G3              | FUN-G3          | FUN-G3  | FUN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.744222  | 0.000044  | 480000000 | 0.088860                           |
| MOSTMEG         | G_LP#1        | Portugal | Iberian Massif | Fundão                | FUN-AT              | FUN-AT          | FUN-AT  | ATALAIA | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.825026  | 0.000011  | 310000000 | 0.098508                           |
| MOSTMEG         | G_CAP#1       | Portugal | Iberian Massif | Capinha               | CAP                 | CAP             | CAP     | CAP     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.765245  | 0.000009  | 310000000 | 0.091370                           |
| MOSTMEG         | G_ARG#1       | Portugal | Iberian Massif | Argemela              | ARG                 | ARG             | ARG     | ARG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.806509  | 0.000007  | 310000000 | 0.096297                           |

| Reference | Sample      | Country  | Location1      | Location2             | Type                   | id         | id2        | id3        | Age (Ma)                         | Event                            | $^{87}\text{Sr}/^{86}\text{Sr}_{(0)}$ | erro (2s) | T (a)     | $^{87}\text{Sr}/^{88}\text{Sr}$ |
|-----------|-------------|----------|----------------|-----------------------|------------------------|------------|------------|------------|----------------------------------|----------------------------------|---------------------------------------|-----------|-----------|---------------------------------|
| MOSTMEG   | G_ARG#2     | Portugal | Iberian Massif | Argemela              | ARG                    | ARG        | ARG        | ARG        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.130183                              | 0.000003  | 310000000 | 0.134944                        |
| MOSTMEG   | SCB2#11     | Portugal | Iberian Massif | Panasqueira           | PAN                    | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.980142                              | 0.000028  | 310000000 | 0.117029                        |
| MOSTMEG   | SCB2#15     | Portugal | Iberian Massif | Panasqueira           | PAN                    | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.773536                              | 0.000012  | 310000000 | 0.092360                        |
| MOSTMEG   | Gf_MATOS#5  | Portugal | Iberian Massif | Matos                 | Granitic dyke          | Matos-Dyke | Matos-Dyke | Matos-Dyke | ?                                | ?                                | 0.713967                              | 0.000010  | 310000000 | 0.085248                        |
| MOSTMEG   | Gf_FURÃO#1  | Portugal | Iberian Massif | Zebreira              | Porphyritic dyke       | ZEB-Dyke   | ZEB-Dyke   | ZEB-Dyke   | ?                                | ?                                | 0.732126                              | 0.000007  | 310000000 | 0.087416                        |
| MOSTMEG   | Gf_SEG#3    | Portugal | Iberian Massif | Segura                | aplite-pegmatite dyke  | SEG-Dyke   | SEG-Dyke   | SEG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.807426                              | 0.000004  | 310000000 | 0.096407                        |
| MOSTMEG   | Gf_SEG#5    | Portugal | Iberian Massif | Segura                | aplite-pegmatite dyke  | SEG-Dyke   | SEG-Dyke   | SEG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.787631                              | 0.000010  | 310000000 | 0.094043                        |
| MOSTMEG   | Gf_CRESPO#2 | Portugal | Iberian Massif | Salvaterra do Extremo | Granitic dyke          | STEX-Dyke  | STEX-Dyke  | STEX-Dyke  | ?                                | ?                                | 0.720086                              | 0.000014  | 310000000 | 0.085978                        |
| MOSTMEG   | Gf_MONS#1A  | Portugal | Iberian Massif | Penamacor-Monsanto    | Pegmatitic dyke        | PM-Dyke    | PM-Dyke    | PM-Dyke    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.002717                              | 0.000014  | 310000000 | 0.119724                        |
| MOSTMEG   | Gf_IDN#2    | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Aplite dyke            | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 1.709958                              | 0.000029  | 310000000 | 0.204169                        |
| MOSTMEG   | Gf_IDN#4    | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Granitic dyke          | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 0.735799                              | 0.000009  | 310000000 | 0.087854                        |
| MOSTMEG   | Gf_MDCH#1   | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Aplite dyke            | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 1.561593                              | 0.000015  | 310000000 | 0.186454                        |
| MOSTMEG   | Gf_ARG#1    | Portugal | Iberian Massif | Argemela              | Pegmatitic dyke        | ARG-Dyke   | ARG-Dyke   | ARG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.020817                              | 0.000005  | 310000000 | 0.121886                        |
| MOSTMEG   | Gf_ARG#2    | Portugal | Iberian Massif | Argemela              | Aplite dyke            | ARG-Dyke   | ARG-Dyke   | ARG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 5.487961                              | 0.000043  | 310000000 | 0.655263                        |
| MOSTMEG   | SMN1#4      | Portugal | Iberian Massif | Panasqueira           | aplito-pegmatitic dyke | PAN-Dyke   | PAN-Dyke   | PAN-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.793794                              | 0.000024  | 310000000 | 0.094779                        |
| MOSTMEG   | P11_G       | Portugal | Iberian Massif | Panasqueira           | Greisen                | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.537974                              | 0.000010  | 310000000 | 0.183634                        |



| Reference        | Sample | Country  | Location1 | Location2 | Type | id          | id2 | id3 | Age (Ma) | Event          | Sum ratios | Abund 84 | Abund 86 | Abund 87 |
|------------------|--------|----------|-----------|-----------|------|-------------|-----|-----|----------|----------------|------------|----------|----------|----------|
| MOSTMEG          | R#1    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 1.215862   | 0.005552 | 0.098202 | 0.073784 |
| MOSTMEG          | R#5    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 1.215851   | 0.005552 | 0.098203 | 0.073777 |
| MOSTMEG          | R#8    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 1.216052   | 0.005551 | 0.098187 | 0.073929 |
| MOSTMEG          | R#13   | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 1.215121   | 0.005555 | 0.098262 | 0.073220 |
| MOSTMEG          | MON#1  | Portugal | Portugal  | Portugal  | MP   | <i>RI</i>   | R   | R   | Upper E  | Pre-Ordovician | 1.215445   | 0.005554 | 0.098236 | 0.073467 |
| MOSTMEG          | CM#1   | Portugal | Portugal  | Portugal  | XM   | <i>RI</i>   | R   | R   | Upper E  | Pre-Ordovician | 1.212576   | 0.005567 | 0.098468 | 0.071275 |
| MOSTMEG          | RAP#1  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 1.214098   | 0.005560 | 0.098345 | 0.072439 |
| MOSTMEG          | CBM#4  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 1.214100   | 0.005560 | 0.098344 | 0.072441 |
| MOSTMEG          | CBM#5  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 1.214235   | 0.005559 | 0.098334 | 0.072544 |
| MOSTMEG          | CBM#6  | Portugal | Portugal  | Portugal  | XM   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 1.215092   | 0.005555 | 0.098264 | 0.073197 |
| MOSTMEG          | FOR#1  | Portugal | Portugal  | Portugal  | XM   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 1.215212   | 0.005555 | 0.098254 | 0.073289 |
| MOSTMEG          | P#5    | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.215041   | 0.005555 | 0.098268 | 0.073159 |
| MOSTMEG          | P#12   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.215769   | 0.005552 | 0.098209 | 0.073714 |
| MOSTMEG          | P#13   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.216486   | 0.005549 | 0.098152 | 0.074259 |
| MOSTMEG          | MT#1   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.216983   | 0.005547 | 0.098111 | 0.074638 |
| MOSTMEG          | MT#9   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.215920   | 0.005551 | 0.098197 | 0.073829 |
| MOSTMEG          | MT#12  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.214328   | 0.005559 | 0.098326 | 0.072615 |
| MOSTMEG          | GAV#3  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.215338   | 0.005554 | 0.098244 | 0.073385 |
| MOSTMEG          | CBM#1  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.216320   | 0.005550 | 0.098165 | 0.074134 |
| MOSTMEG          | ING#1  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.217856   | 0.005543 | 0.098041 | 0.075301 |
| MOSTMEG          | MT#11  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.213292   | 0.005563 | 0.098410 | 0.071823 |
| MOSTMEG          | SCB2#1 | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.215966   | 0.005551 | 0.098194 | 0.073864 |
| MOSTMEG          | ARG#1  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.246022   | 0.005417 | 0.095825 | 0.096203 |
| MOSTMEG          | ARG#2  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.217937   | 0.005542 | 0.098035 | 0.075363 |
| MOSTMEG          | P#11   | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.214412   | 0.005558 | 0.098319 | 0.072679 |
| MOSTMEG          | R#12   | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.215555   | 0.005553 | 0.098227 | 0.073550 |
| MOSTMEG          | FUN#1  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.215234   | 0.005554 | 0.098253 | 0.073306 |
| MOSTMEG          | P#2    | Portugal | Portugal  | Portugal  | MP   | <i>MTI</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.215145   | 0.005555 | 0.098260 | 0.073238 |
| MOSTMEG          | GAV#1  | Portugal | Portugal  | Portugal  | MP   | <i>Mtl</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.214501   | 0.005558 | 0.098312 | 0.072747 |
| MOSTMEG          | GAV#2  | Portugal | Portugal  | Portugal  | MP   | <i>Mtl</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 1.216902   | 0.005547 | 0.098118 | 0.074577 |
| sinari et al., 1 | BA-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.216894   | 0.005547 | 0.098119 | 0.074570 |
| sinari et al., 1 | BA-5   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.216986   | 0.005546 | 0.098111 | 0.074640 |
| sinari et al., 1 | BB-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.216586   | 0.005548 | 0.098143 | 0.074336 |
| sinari et al., 1 | BB-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.215257   | 0.005554 | 0.098251 | 0.073324 |
| sinari et al., 1 | RA-2   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.217725   | 0.005543 | 0.098052 | 0.075202 |
| sinari et al., 1 | RA-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.219272   | 0.005536 | 0.097927 | 0.076375 |
| sinari et al., 1 | RB-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.219383   | 0.005536 | 0.097918 | 0.076460 |
| sinari et al., 1 | RB-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.220655   | 0.005530 | 0.097816 | 0.077422 |
| sinari et al., 1 | RB-6   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.217177   | 0.005546 | 0.098096 | 0.074785 |
| sinari et al., 1 | RB-8   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.214861   | 0.005556 | 0.098283 | 0.073021 |
| sinari et al., 1 | AA-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.218715   | 0.005539 | 0.097972 | 0.075953 |
| sinari et al., 1 | AA-2   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.217681   | 0.005543 | 0.098055 | 0.075168 |
| sinari et al., 1 | AA-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.219510   | 0.005535 | 0.097908 | 0.076555 |
| sinari et al., 1 | AA-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.219557   | 0.005535 | 0.097904 | 0.076591 |
| sinari et al., 1 | A-1    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.216778   | 0.005547 | 0.098128 | 0.074482 |
| sinari et al., 1 | A-2    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.214880   | 0.005556 | 0.098281 | 0.073036 |
| sinari et al., 1 | A-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.218389   | 0.005540 | 0.097998 | 0.075706 |
| sinari et al., 1 | B-3    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.213935   | 0.005560 | 0.098358 | 0.072315 |
| sinari et al., 1 | B-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 1.215280   | 0.005554 | 0.098249 | 0.073341 |

| Reference        | Sample | Country  | Location1 | Location2 | Type | id                 | id2 | id3 | Age (Ma)          | Event          | Sum ratios | Abund 84 | Abund 86 | Abund 87 |
|------------------|--------|----------|-----------|-----------|------|--------------------|-----|-----|-------------------|----------------|------------|----------|----------|----------|
| sinari et al., 1 | B-5    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 1.213903   | 0.005561 | 0.098360 | 0.072290 |
| sinari et al., 1 | C-2    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 1.214886   | 0.005556 | 0.098281 | 0.073040 |
| sinari et al., 1 | C-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 1.215705   | 0.005552 | 0.098215 | 0.073665 |
| sinari et al., 1 | FM-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 1.218046   | 0.005542 | 0.098026 | 0.075446 |
| sinari et al., 1 | FM-2-1 | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 1.214716   | 0.005557 | 0.098295 | 0.072911 |
| sinari et al., 1 | FM-2-2 | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 1.215993   | 0.005551 | 0.098191 | 0.073884 |
| sinari et al., 1 | FM-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 1.216099   | 0.005551 | 0.098183 | 0.073965 |
| sinari et al., 1 | FM-10  | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 1.217225   | 0.005545 | 0.098092 | 0.074822 |
| xeira et al., 2  | DJ1    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 1.212046   | 0.005569 | 0.098511 | 0.070869 |
| xeira et al., 2  | RI4    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 1.213921   | 0.005560 | 0.098359 | 0.072304 |
| xeira et al., 2  | PI5    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 1.214852   | 0.005556 | 0.098284 | 0.073015 |
| xeira et al., 2  | EV1    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 1.213205   | 0.005564 | 0.098417 | 0.071756 |
| aseca et al., 2  | 110194 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 1.215681   | 0.005552 | 0.098217 | 0.073646 |
| aseca et al., 2  | 110216 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 1.214296   | 0.005559 | 0.098329 | 0.072590 |
| aseca et al., 2  | 110190 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 1.213414   | 0.005563 | 0.098400 | 0.071916 |
| aseca et al., 2  | 111967 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 1.212045   | 0.005569 | 0.098511 | 0.070868 |
| ijos et al., 20  | SSA-12 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 1.213249   | 0.005564 | 0.098413 | 0.071790 |
| ijos et al., 20  | SIA-12 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 1.213249   | 0.005564 | 0.098413 | 0.071790 |
| ijos et al., 20  | SIA-22 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 1.216008   | 0.005551 | 0.098190 | 0.073896 |
| ijos et al., 20  | SIA-31 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 1.214723   | 0.005557 | 0.098294 | 0.072916 |
| ijos et al., 20  | SIA-3  | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 1.213093   | 0.005564 | 0.098426 | 0.071671 |
| ijos et al., 20  | SIA-25 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 1.214433   | 0.005558 | 0.098317 | 0.072695 |
| aseca et al., 2  | 110191 | Spain    | Spain     | Spain     | C    | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 1.213767   | 0.005561 | 0.098371 | 0.072186 |
| aseca et al., 2  | 110192 | Spain    | Spain     | Spain     | C    | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 1.213689   | 0.005562 | 0.098378 | 0.072126 |
| ijos et al., 20  | SIA-33 | Spain    | Spain     | Spain     | MG   | <i>R_ES</i>        | BG  | BG  | Late E            | Pre-Ordovician | 1.214139   | 0.005559 | 0.098341 | 0.072471 |
| ijos et al., 20  | FG-4   | Spain    | Spain     | Spain     | MP   | <i>R_ES</i>        | BG  | BG  | Late E            | Pre-Ordovician | 1.213010   | 0.005565 | 0.098433 | 0.071607 |
| ijos et al., 19  | GUB-26 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 1.212188   | 0.005568 | 0.098500 | 0.070978 |
| ijos et al., 20  | CR-5   | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 1.214859   | 0.005556 | 0.098283 | 0.073020 |
| ijos et al., 20  | SSA-20 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 1.215267   | 0.005554 | 0.098250 | 0.073331 |
| ijos et al., 20  | SSA-30 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 1.219004   | 0.005537 | 0.097949 | 0.076172 |
| ijos et al., 20  | SSA-15 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 1.217472   | 0.005544 | 0.098072 | 0.075009 |
| ijos et al., 19  | GUB-22 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 1.212026   | 0.005569 | 0.098513 | 0.070853 |
| ijos et al., 19  | GUB-23 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 1.211841   | 0.005570 | 0.098528 | 0.070711 |
| aseca et al., 1  | 93202  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 1.213412   | 0.005563 | 0.098400 | 0.071915 |
| aseca et al., 1  | 93198  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 1.213022   | 0.005565 | 0.098432 | 0.071616 |
| aseca et al., 1  | 93208  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 1.212834   | 0.005565 | 0.098447 | 0.071473 |
| aseca et al., 1  | 90961  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 1.213255   | 0.005564 | 0.098413 | 0.071794 |
| aseca et al., 1  | 92196  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 1.213080   | 0.005564 | 0.098427 | 0.071661 |
| aseca et al., 1  | 77758  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 1.213946   | 0.005560 | 0.098357 | 0.072323 |
| aseca et al., 1  | 92194  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 1.213671   | 0.005562 | 0.098379 | 0.072113 |
| aseca et al., 1  | 92199  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 1.214606   | 0.005557 | 0.098303 | 0.072827 |
| aseca et al., 2  | 77758a | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 1.213946   | 0.005560 | 0.098357 | 0.072323 |
| aseca et al., 2  | 96874  | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 1.213662   | 0.005562 | 0.098380 | 0.072106 |
| aseca et al., 2  | 111031 | Spain    | Spain     | Spain     | PG   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 1.216343   | 0.005549 | 0.098163 | 0.074151 |
| aseca et al., 2  | 112025 | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 1.222194   | 0.005523 | 0.097693 | 0.078583 |
| aseca et al., 2  | 112026 | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 1.213294   | 0.005563 | 0.098410 | 0.071824 |
| aseca et al., 2  | 112027 | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 1.212904   | 0.005565 | 0.098441 | 0.071526 |
| aseca et al., 2  | 108579 | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 1.215048   | 0.005555 | 0.098268 | 0.073164 |
| aseca et al., 2  | 108583 | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 1.213364   | 0.005563 | 0.098404 | 0.071878 |

| Reference       | Sample        | Country  | Location1      | Location2             | Type                | id       | id2     | id3     | Age (Ma)                         | Event                            | Sum ratios | Abund 84 | Abund 86 | Abund 87 |
|-----------------|---------------|----------|----------------|-----------------------|---------------------|----------|---------|---------|----------------------------------|----------------------------------|------------|----------|----------|----------|
| aseca et al., 2 | 108582        | Spain    | Spain          | Spain                 | GRL                 | NZCI     | DG      | DG      | ?                                | Pre-Ordovician                   | 1.213549   | 0.005562 | 0.098389 | 0.072019 |
| aseca et al., 1 | VO-16         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 1.212522   | 0.005567 | 0.098472 | 0.071233 |
| aseca et al., 1 | VO-19         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 1.212547   | 0.005567 | 0.098470 | 0.071252 |
| aseca et al., 1 | 92193         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 1.217230   | 0.005545 | 0.098092 | 0.074825 |
| aseca et al., 1 | T-370         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 1.215250   | 0.005554 | 0.098251 | 0.073318 |
| aseca et al., 1 | VI-3          | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 1.280251   | 0.005272 | 0.093263 | 0.120368 |
| aseca et al., 1 | 92566         | Spain    | Spain          | Spain                 | PG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 1.212154   | 0.005569 | 0.098502 | 0.070951 |
| aseca et al., 1 | U-50          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 1.211576   | 0.005571 | 0.098549 | 0.070508 |
| aseca et al., 1 | U-49          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 1.211538   | 0.005571 | 0.098552 | 0.070479 |
| aseca et al., 1 | U-92          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 1.211897   | 0.005570 | 0.098523 | 0.070754 |
| aseca et al., 1 | U-93          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 1.210969   | 0.005574 | 0.098599 | 0.070043 |
| aseca et al., 1 | U-145         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 1.211755   | 0.005570 | 0.098535 | 0.070645 |
| aseca et al., 1 | U-146         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 1.211141   | 0.005573 | 0.098585 | 0.070175 |
| aseca et al., 1 | U-147         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 1.210903   | 0.005574 | 0.098604 | 0.069991 |
| aseca et al., 1 | U-152         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 1.211694   | 0.005571 | 0.098540 | 0.070599 |
| aseca et al., 1 | U-155         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 1.211228   | 0.005573 | 0.098578 | 0.070241 |
| aseca et al., 1 | U-157         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 1.211205   | 0.005573 | 0.098580 | 0.070223 |
| aseca et al., 1 | U-141         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 1.211614   | 0.005571 | 0.098546 | 0.070537 |
| aseca et al., 1 | U-90          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 1.212151   | 0.005569 | 0.098503 | 0.070949 |
| aseca et al., 1 | U-91          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 1.212154   | 0.005569 | 0.098502 | 0.070951 |
| aseca et al., 1 | U-42          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 1.212314   | 0.005568 | 0.098489 | 0.071074 |
| aseca et al., 1 | U-96          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 1.212947   | 0.005565 | 0.098438 | 0.071558 |
| aseca et al., 1 | U-10          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 1.211479   | 0.005572 | 0.098557 | 0.070434 |
| Lopes 2015      | CR- 200538    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 1.212102   | 0.005569 | 0.098507 | 0.070911 |
| Lopes 2015      | CR- 200547    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 1.212356   | 0.005568 | 0.098486 | 0.071107 |
| Lopes 2015      | CR- 201472    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 1.214417   | 0.005558 | 0.098319 | 0.072683 |
| Lopes 2015      | CR- 201512    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 1.212151   | 0.005569 | 0.098503 | 0.070949 |
| Lopes 2015      | CR- 201543    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 1.213034   | 0.005565 | 0.098431 | 0.071626 |
| Lopes 2015      | CR- 201611    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 1.211913   | 0.005570 | 0.098522 | 0.070767 |
| Lopes 2015      | CR- 201660    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 1.212701   | 0.005566 | 0.098458 | 0.071370 |
| MOSTMEG         | G_MATOS#1     | Portugal | Iberian Massif | Matos                 | Matos Granodiorite  | GMatos   | GMatos  | Matos   | Cambrian-Ordovician              | Cambrian-Ordovician              | 1.211851   | 0.005570 | 0.098527 | 0.070719 |
| MOSTMEG         | G_ZEB#1       | Portugal | Iberian Massif | Zebreira              | ZEB-W               | GZEB     | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 1.218214   | 0.005541 | 0.098012 | 0.075573 |
| MOSTMEG         | G_ZEB#4       | Portugal | Iberian Massif | Zebreira              | ZEB-W               | GZEB     | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 1.267460   | 0.005326 | 0.094204 | 0.111491 |
| MOSTMEG         | G_MARCELINA#1 | Portugal | Iberian Massif | Zebreira              | Porphyritic granite | GZEB     | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 1.214012   | 0.005560 | 0.098352 | 0.072373 |
| MOSTMEG         | G_IDN#2       | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | OIN-G4              | G4-OIN   | G4-OIN  | OIN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 1.223518   | 0.005517 | 0.097587 | 0.079580 |
| MOSTMEG         | G_BATÃO#1     | Portugal | Iberian Massif | Batão                 | BATÃO               | BATÃO    | BATÃO   | BATÃO   | Cambrian-Ordovician              | Cambrian-Ordovician              | 1.210983   | 0.005574 | 0.098598 | 0.070053 |
| MOSTMEG         | G_STEX#2      | Portugal | Iberian Massif | Salvaterra do Extremo | STEX                | STEX     | STEX    | STEX    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.235683   | 0.005463 | 0.096627 | 0.088642 |
| MOSTMEG         | G_SEG#1       | Portugal | Iberian Massif | Segura                | SEG                 | G1-SEG   | G1-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.220309   | 0.005531 | 0.097844 | 0.077160 |
| MOSTMEG         | G_SEG#2       | Portugal | Iberian Massif | Segura                | SEG                 | G2-SEG   | G2-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.236979   | 0.005457 | 0.096525 | 0.089597 |
| MOSTMEG         | G_SEG#4       | Portugal | Iberian Massif | Segura                | SEG                 | G3-SEG   | G3-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.218582   | 0.005539 | 0.097983 | 0.075852 |
| MOSTMEG         | G_MONS#2      | Portugal | Iberian Massif | Penamacor-Monsanto    | PM-G3               | PM-G3    | PM-G3   | PM      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.220484   | 0.005531 | 0.097830 | 0.077292 |
| MOSTMEG         | G_MED#1       | Portugal | Iberian Massif | Penamacor-Monsanto    | PM-G6               | PM-G6    | PM-G6   | PM      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.241747   | 0.005436 | 0.096155 | 0.093092 |
| MOSTMEG         | G_SEIXO#1     | Portugal | Iberian Massif | Orca                  | Orca-G2             | Orca-G2  | Orca-G2 | ORCA    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.223971   | 0.005515 | 0.097551 | 0.079921 |
| MOSTMEG         | G_CB#3        | Portugal | Iberian Massif | Castelo Branco        | CB-G5               | CB-G5    | CB-G5   | CB      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.234438   | 0.005468 | 0.096724 | 0.087722 |
| MOSTMEG         | G_FUN#2       | Portugal | Iberian Massif | Fundão                | FUN-G2              | FUN-G2   | FUN-G2  | FUN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 1.211261   | 0.005573 | 0.098575 | 0.070266 |
| MOSTMEG         | G_FUN#4       | Portugal | Iberian Massif | Fundão                | FUN-G3              | FUN-G3   | FUN-G3  | FUN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 1.215010   | 0.005556 | 0.098271 | 0.073135 |
| MOSTMEG         | G_LP#1        | Portugal | Iberian Massif | Fundão                | FUN-AT              | FUN-AT   | FUN-AT  | ATALAIA | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.224658   | 0.005512 | 0.097497 | 0.080437 |
| MOSTMEG         | G_CAP#1       | Portugal | Iberian Massif | Capinha               | CAP                 | CAP      | CAP     | CAP     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.217520   | 0.005544 | 0.098068 | 0.075046 |
| MOSTMEG         | G_ARG#1       | Portugal | Iberian Massif | Argemela              | ARG                 | ARG      | ARG     | ARG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.222447   | 0.005522 | 0.097673 | 0.078774 |

| Reference | Sample      | Country  | Location1      | Location2             | Type                   | id         | id2        | id3        | Age (Ma)                         | Event                            | Sum ratios | Abund 84 | Abund 86 | Abund 87 |
|-----------|-------------|----------|----------------|-----------------------|------------------------|------------|------------|------------|----------------------------------|----------------------------------|------------|----------|----------|----------|
| MOSTMEG   | G_ARG#2     | Portugal | Iberian Massif | Argemela              | ARG                    | ARG        | ARG        | ARG        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.261094   | 0.005352 | 0.094680 | 0.107005 |
| MOSTMEG   | SCB2#11     | Portugal | Iberian Massif | Panasqueira           | PAN                    | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.243179   | 0.005430 | 0.096044 | 0.094137 |
| MOSTMEG   | SCB2#15     | Portugal | Iberian Massif | Panasqueira           | PAN                    | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.218510   | 0.005540 | 0.097989 | 0.075798 |
| MOSTMEG   | Gf_MATOS#5  | Portugal | Iberian Massif | Matos                 | Granitic dyke          | Matos-Dyke | Matos-Dyke | Matos-Dyke | ?                                | ?                                | 1.211398   | 0.005572 | 0.098564 | 0.070371 |
| MOSTMEG   | Gf_FURÃO#1  | Portugal | Iberian Massif | Zebreira              | Porphyritic dyke       | ZEB-Dyke   | ZEB-Dyke   | ZEB-Dyke   | ?                                | ?                                | 1.213566   | 0.005562 | 0.098388 | 0.072032 |
| MOSTMEG   | Gf_SEG#3    | Portugal | Iberian Massif | Segura                | aplite-pegmatite dyke  | SEG-Dyke   | SEG-Dyke   | SEG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.222557   | 0.005521 | 0.097664 | 0.078857 |
| MOSTMEG   | Gf_SEG#5    | Portugal | Iberian Massif | Segura                | aplite-pegmatite dyke  | SEG-Dyke   | SEG-Dyke   | SEG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.220193   | 0.005532 | 0.097853 | 0.077072 |
| MOSTMEG   | Gf_CRESPO#2 | Portugal | Iberian Massif | Salvaterra do Extremo | Granitic dyke          | STEX-Dyke  | STEX-Dyke  | STEX-Dyke  | ?                                | ?                                | 1.212128   | 0.005569 | 0.098504 | 0.070932 |
| MOSTMEG   | Gf_MONS#1A  | Portugal | Iberian Massif | Penamacor-Monsanto    | Pegmatitic dyke        | PM-Dyke    | PM-Dyke    | PM-Dyke    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.245874   | 0.005418 | 0.095836 | 0.096097 |
| MOSTMEG   | Gf_IDN#2    | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Aplite dyke            | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 1.330319   | 0.005074 | 0.089753 | 0.153474 |
| MOSTMEG   | Gf_IDN#4    | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Granitic dyke          | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 1.214004   | 0.005560 | 0.098352 | 0.072367 |
| MOSTMEG   | Gf_MDCH#1   | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Aplite dyke            | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 1.312604   | 0.005142 | 0.090964 | 0.142049 |
| MOSTMEG   | Gf_ARG#1    | Portugal | Iberian Massif | Argemela              | Pegmatitic dyke        | ARG-Dyke   | ARG-Dyke   | ARG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.248036   | 0.005408 | 0.095670 | 0.097662 |
| MOSTMEG   | Gf_ARG#2    | Portugal | Iberian Massif | Argemela              | Aplite dyke            | ARG-Dyke   | ARG-Dyke   | ARG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.781413   | 0.003789 | 0.067025 | 0.367833 |
| MOSTMEG   | SMN1#4      | Portugal | Iberian Massif | Panasqueira           | aplito-pegmatitic dyke | PAN-Dyke   | PAN-Dyke   | PAN-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.220929   | 0.005529 | 0.097794 | 0.077629 |
| MOSTMEG   | P11_G       | Portugal | Iberian Massif | Panasqueira           | Greisen                | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.309784   | 0.005154 | 0.091160 | 0.140202 |

| Reference        | Sample | Country  | Location1 | Location2 | Type | id          | id2 | id3 | Age (Ma) | Event          | Abund 88 | Sum abund | Atomic W 84 |
|------------------|--------|----------|-----------|-----------|------|-------------|-----|-----|----------|----------------|----------|-----------|-------------|
| MOSTMEG          | R#1    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 0.822462 | 1.000000  | 0.465855    |
| MOSTMEG          | R#5    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 0.822469 | 1.000000  | 0.465859    |
| MOSTMEG          | R#8    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 0.822334 | 1.000000  | 0.465783    |
| MOSTMEG          | R#13   | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 0.822963 | 1.000000  | 0.466139    |
| MOSTMEG          | MON#1  | Portugal | Portugal  | Portugal  | MP   | <i>RI</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.822744 | 1.000000  | 0.466015    |
| MOSTMEG          | CM#1   | Portugal | Portugal  | Portugal  | XM   | <i>RI</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.824690 | 1.000000  | 0.467117    |
| MOSTMEG          | RAP#1  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.823657 | 1.000000  | 0.466532    |
| MOSTMEG          | CBM#4  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.823655 | 1.000000  | 0.466531    |
| MOSTMEG          | CBM#5  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.823564 | 1.000000  | 0.466479    |
| MOSTMEG          | CBM#6  | Portugal | Portugal  | Portugal  | XM   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.822983 | 1.000000  | 0.466151    |
| MOSTMEG          | FOR#1  | Portugal | Portugal  | Portugal  | XM   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.822902 | 1.000000  | 0.466104    |
| MOSTMEG          | P#5    | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.823018 | 1.000000  | 0.466170    |
| MOSTMEG          | P#12   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.822525 | 1.000000  | 0.465891    |
| MOSTMEG          | P#13   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.822040 | 1.000000  | 0.465616    |
| MOSTMEG          | MT#1   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.821704 | 1.000000  | 0.465426    |
| MOSTMEG          | MT#9   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.822423 | 1.000000  | 0.465833    |
| MOSTMEG          | MT#12  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.823501 | 1.000000  | 0.466444    |
| MOSTMEG          | GAV#3  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.822816 | 1.000000  | 0.466056    |
| MOSTMEG          | CBM#1  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.822152 | 1.000000  | 0.465680    |
| MOSTMEG          | ING#1  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.821115 | 1.000000  | 0.465092    |
| MOSTMEG          | MT#11  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.824204 | 1.000000  | 0.466842    |
| MOSTMEG          | SCB2#1 | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.822391 | 1.000000  | 0.465815    |
| MOSTMEG          | ARG#1  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.802554 | 1.000000  | 0.454579    |
| MOSTMEG          | ARG#2  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.821061 | 1.000000  | 0.465062    |
| MOSTMEG          | P#11   | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.823444 | 1.000000  | 0.466411    |
| MOSTMEG          | R#12   | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.822670 | 1.000000  | 0.465973    |
| MOSTMEG          | FUN#1  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.822887 | 1.000000  | 0.466096    |
| MOSTMEG          | P#2    | Portugal | Portugal  | Portugal  | MP   | <i>MTI</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.822947 | 1.000000  | 0.466130    |
| MOSTMEG          | GAV#1  | Portugal | Portugal  | Portugal  | MP   | <i>Mtl</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.823384 | 1.000000  | 0.466377    |
| MOSTMEG          | GAV#2  | Portugal | Portugal  | Portugal  | MP   | <i>Mtl</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.821759 | 1.000000  | 0.465457    |
| sinari et al., 1 | BA-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.821764 | 1.000000  | 0.465460    |
| sinari et al., 1 | BA-5   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.821702 | 1.000000  | 0.465425    |
| sinari et al., 1 | BB-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.821972 | 1.000000  | 0.465578    |
| sinari et al., 1 | BB-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.822871 | 1.000000  | 0.466087    |
| sinari et al., 1 | RA-2   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.821203 | 1.000000  | 0.465142    |
| sinari et al., 1 | RA-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.820161 | 1.000000  | 0.464552    |
| sinari et al., 1 | RB-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.820087 | 1.000000  | 0.464510    |
| sinari et al., 1 | RB-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.819232 | 1.000000  | 0.464026    |
| sinari et al., 1 | RB-6   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.821573 | 1.000000  | 0.465352    |
| sinari et al., 1 | RB-8   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.823140 | 1.000000  | 0.466239    |
| sinari et al., 1 | AA-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.820536 | 1.000000  | 0.464765    |
| sinari et al., 1 | AA-2   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.821233 | 1.000000  | 0.465159    |
| sinari et al., 1 | AA-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.820001 | 1.000000  | 0.464462    |
| sinari et al., 1 | AA-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.819970 | 1.000000  | 0.464444    |
| sinari et al., 1 | A-1    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.821842 | 1.000000  | 0.465504    |
| sinari et al., 1 | A-2    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.823127 | 1.000000  | 0.466232    |
| sinari et al., 1 | A-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.820756 | 1.000000  | 0.464889    |
| sinari et al., 1 | B-3    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.823767 | 1.000000  | 0.466595    |
| sinari et al., 1 | B-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.822856 | 1.000000  | 0.466078    |

| Reference        | Sample | Country  | Location1 | Location2 | Type | id                 | id2 | id3 | Age (Ma)          | Event          | Abund 88 | Sum abund | Atomic W 84 |
|------------------|--------|----------|-----------|-----------|------|--------------------|-----|-----|-------------------|----------------|----------|-----------|-------------|
| sinari et al., 1 | B-5    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.823789 | 1.000000  | 0.466607    |
| sinari et al., 1 | C-2    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.823123 | 1.000000  | 0.466230    |
| sinari et al., 1 | C-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.822568 | 1.000000  | 0.465915    |
| sinari et al., 1 | FM-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.820987 | 1.000000  | 0.465020    |
| sinari et al., 1 | FM-2-1 | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.823238 | 1.000000  | 0.466295    |
| sinari et al., 1 | FM-2-2 | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.822373 | 1.000000  | 0.465805    |
| sinari et al., 1 | FM-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.822302 | 1.000000  | 0.465764    |
| sinari et al., 1 | FM-10  | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.821541 | 1.000000  | 0.465334    |
| xeira et al., 2  | DJ1    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 0.825051 | 1.000000  | 0.467322    |
| xeira et al., 2  | RI4    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 0.823777 | 1.000000  | 0.466600    |
| xeira et al., 2  | PI5    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 0.823145 | 1.000000  | 0.466242    |
| xeira et al., 2  | EV1    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 0.824263 | 1.000000  | 0.466876    |
| aseca et al., 2  | 110194 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.822585 | 1.000000  | 0.465925    |
| aseca et al., 2  | 110216 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.823523 | 1.000000  | 0.466456    |
| aseca et al., 2  | 110190 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.824121 | 1.000000  | 0.466795    |
| aseca et al., 2  | 111967 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.825052 | 1.000000  | 0.467322    |
| ijos et al., 20  | SSA-12 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.824233 | 1.000000  | 0.466859    |
| ijos et al., 20  | SIA-12 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.824233 | 1.000000  | 0.466859    |
| ijos et al., 20  | SIA-22 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.822363 | 1.000000  | 0.465799    |
| ijos et al., 20  | SIA-31 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.823233 | 1.000000  | 0.466292    |
| ijos et al., 20  | SIA-3  | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.824339 | 1.000000  | 0.466918    |
| ijos et al., 20  | SIA-25 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.823429 | 1.000000  | 0.466403    |
| aseca et al., 2  | 110191 | Spain    | Spain     | Spain     | C    | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.823881 | 1.000000  | 0.466659    |
| aseca et al., 2  | 110192 | Spain    | Spain     | Spain     | C    | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.823935 | 1.000000  | 0.466689    |
| ijos et al., 20  | SIA-33 | Spain    | Spain     | Spain     | MG   | <i>R_ES</i>        | BG  | BG  | Late E            | Pre-Ordovician | 0.823629 | 1.000000  | 0.466516    |
| ijos et al., 20  | FG-4   | Spain    | Spain     | Spain     | MP   | <i>R_ES</i>        | BG  | BG  | Late E            | Pre-Ordovician | 0.824396 | 1.000000  | 0.466951    |
| ijos et al., 19  | GUB-26 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.824954 | 1.000000  | 0.467267    |
| ijos et al., 20  | CR-5   | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.823141 | 1.000000  | 0.466240    |
| ijos et al., 20  | SSA-20 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.822865 | 1.000000  | 0.466083    |
| ijos et al., 20  | SSA-30 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.820342 | 1.000000  | 0.464655    |
| ijos et al., 20  | SSA-15 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.821374 | 1.000000  | 0.465239    |
| ijos et al., 19  | GUB-22 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.825065 | 1.000000  | 0.467330    |
| ijos et al., 19  | GUB-23 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.825191 | 1.000000  | 0.467401    |
| aseca et al., 1  | 93202  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.824122 | 1.000000  | 0.466796    |
| aseca et al., 1  | 93198  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.824387 | 1.000000  | 0.466946    |
| aseca et al., 1  | 93208  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.824515 | 1.000000  | 0.467018    |
| aseca et al., 1  | 90961  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.824229 | 1.000000  | 0.466856    |
| aseca et al., 1  | 92196  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.824348 | 1.000000  | 0.466923    |
| aseca et al., 1  | 77758  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.823760 | 1.000000  | 0.466590    |
| aseca et al., 1  | 92194  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.823946 | 1.000000  | 0.466696    |
| aseca et al., 1  | 92199  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.823312 | 1.000000  | 0.466337    |
| aseca et al., 2  | 77758a | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.823760 | 1.000000  | 0.466590    |
| aseca et al., 2  | 96874  | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.823952 | 1.000000  | 0.466700    |
| aseca et al., 2  | 111031 | Spain    | Spain     | Spain     | PG   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.822137 | 1.000000  | 0.465671    |
| aseca et al., 2  | 112025 | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.818201 | 1.000000  | 0.463442    |
| aseca et al., 2  | 112026 | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.824202 | 1.000000  | 0.466841    |
| aseca et al., 2  | 112027 | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.824468 | 1.000000  | 0.466991    |
| aseca et al., 2  | 108579 | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.823013 | 1.000000  | 0.466167    |
| aseca et al., 2  | 108583 | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.824155 | 1.000000  | 0.466814    |

| Reference       | Sample        | Country  | Location1      | Location2             | Type                | id       | id2     | id3     | Age (Ma)                         | Event                            | Abund 88 | Sum abund | Atomic W 84 |
|-----------------|---------------|----------|----------------|-----------------------|---------------------|----------|---------|---------|----------------------------------|----------------------------------|----------|-----------|-------------|
| aseca et al., 2 | 108582        | Spain    | Spain          | Spain                 | GRL                 | NZCI     | DG      | DG      | ?                                | Pre-Ordovician                   | 0.824029 | 1.000000  | 0.466743    |
| aseca et al., 1 | VO-16         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 0.824728 | 1.000000  | 0.467139    |
| aseca et al., 1 | VO-19         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 0.824711 | 1.000000  | 0.467129    |
| aseca et al., 1 | 92193         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 0.821538 | 1.000000  | 0.465332    |
| aseca et al., 1 | T-370         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 0.822876 | 1.000000  | 0.466090    |
| aseca et al., 1 | VI-3          | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 0.781097 | 1.000000  | 0.442425    |
| aseca et al., 1 | 92566         | Spain    | Spain          | Spain                 | PG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 0.824978 | 1.000000  | 0.467280    |
| aseca et al., 1 | U-50          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.825371 | 1.000000  | 0.467503    |
| aseca et al., 1 | U-49          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.825397 | 1.000000  | 0.467518    |
| aseca et al., 1 | U-92          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.825153 | 1.000000  | 0.467379    |
| aseca et al., 1 | U-93          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.825785 | 1.000000  | 0.467737    |
| aseca et al., 1 | U-145         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.825249 | 1.000000  | 0.467434    |
| aseca et al., 1 | U-146         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.825667 | 1.000000  | 0.467671    |
| aseca et al., 1 | U-147         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.825830 | 1.000000  | 0.467763    |
| aseca et al., 1 | U-152         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.825291 | 1.000000  | 0.467458    |
| aseca et al., 1 | U-155         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.825608 | 1.000000  | 0.467637    |
| aseca et al., 1 | U-157         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.825624 | 1.000000  | 0.467647    |
| aseca et al., 1 | U-141         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.825345 | 1.000000  | 0.467488    |
| aseca et al., 1 | U-90          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 0.824979 | 1.000000  | 0.467281    |
| aseca et al., 1 | U-91          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 0.824978 | 1.000000  | 0.467280    |
| aseca et al., 1 | U-42          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 0.824869 | 1.000000  | 0.467219    |
| aseca et al., 1 | U-96          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 0.824439 | 1.000000  | 0.466975    |
| aseca et al., 1 | U-10          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 0.825437 | 1.000000  | 0.467541    |
| Lopes 2015      | CR- 200538    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.825013 | 1.000000  | 0.467300    |
| Lopes 2015      | CR- 200547    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.824840 | 1.000000  | 0.467202    |
| Lopes 2015      | CR- 201472    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.823440 | 1.000000  | 0.466409    |
| Lopes 2015      | CR- 201512    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.824980 | 1.000000  | 0.467282    |
| Lopes 2015      | CR- 201543    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.824379 | 1.000000  | 0.466941    |
| Lopes 2015      | CR- 201611    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.825141 | 1.000000  | 0.467373    |
| Lopes 2015      | CR- 201660    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.824606 | 1.000000  | 0.467070    |
| MOSTMEG         | G_MATOS#1     | Portugal | Iberian Massif | Matos                 | Matos Granodiorite  | GMatos   | GMatos  | Matos   | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.825184 | 1.000000  | 0.467397    |
| MOSTMEG         | G_ZEB#1       | Portugal | Iberian Massif | Zebreira              | ZEB-W               | GZEB     | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.820874 | 1.000000  | 0.464956    |
| MOSTMEG         | G_ZEB#4       | Portugal | Iberian Massif | Zebreira              | ZEB-W               | GZEB     | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.788979 | 1.000000  | 0.446890    |
| MOSTMEG         | G_MARCELINA#1 | Portugal | Iberian Massif | Zebreira              | Porphyritic granite | GZEB     | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.823715 | 1.000000  | 0.466565    |
| MOSTMEG         | G_IDN#2       | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | OIN-G4              | G4-OIN   | G4-OIN  | OIN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.817315 | 1.000000  | 0.462940    |
| MOSTMEG         | G_BATÃO#1     | Portugal | Iberian Massif | Batão                 | BATÃO               | BATÃO    | BATÃO   | BATÃO   | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.825775 | 1.000000  | 0.467732    |
| MOSTMEG         | G_STEX#2      | Portugal | Iberian Massif | Salvaterra do Extremo | STEX                | STEX     | STEX    | STEX    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.809269 | 1.000000  | 0.458383    |
| MOSTMEG         | G_SEG#1       | Portugal | Iberian Massif | Segura                | SEG                 | G1-SEG   | G1-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.819465 | 1.000000  | 0.464158    |
| MOSTMEG         | G_SEG#2       | Portugal | Iberian Massif | Segura                | SEG                 | G2-SEG   | G2-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.808421 | 1.000000  | 0.457902    |
| MOSTMEG         | G_SEG#4       | Portugal | Iberian Massif | Segura                | SEG                 | G3-SEG   | G3-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.820626 | 1.000000  | 0.464815    |
| MOSTMEG         | G_MONS#2      | Portugal | Iberian Massif | Penamacor-Monsanto    | PM-G3               | PM-G3    | PM-G3   | PM      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.819347 | 1.000000  | 0.464091    |
| MOSTMEG         | G_MED#1       | Portugal | Iberian Massif | Penamacor-Monsanto    | PM-G6               | PM-G6    | PM-G6   | PM      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.805317 | 1.000000  | 0.456144    |
| MOSTMEG         | G_SEIXO#1     | Portugal | Iberian Massif | Orca                  | Orca-G2             | Orca-G2  | Orca-G2 | ORCA    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.817013 | 1.000000  | 0.462769    |
| MOSTMEG         | G_CB#3        | Portugal | Iberian Massif | Castelo Branco        | CB-G5               | CB-G5    | CB-G5   | CB      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.810085 | 1.000000  | 0.458845    |
| MOSTMEG         | G_FUN#2       | Portugal | Iberian Massif | Fundão                | FUN-G2              | FUN-G2   | FUN-G2  | FUN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.825586 | 1.000000  | 0.467625    |
| MOSTMEG         | G_FUN#4       | Portugal | Iberian Massif | Fundão                | FUN-G3              | FUN-G3   | FUN-G3  | FUN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.823038 | 1.000000  | 0.466182    |
| MOSTMEG         | G_LP#1        | Portugal | Iberian Massif | Fundão                | FUN-AT              | FUN-AT   | FUN-AT  | ATALAIA | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.816554 | 1.000000  | 0.462509    |
| MOSTMEG         | G_CAP#1       | Portugal | Iberian Massif | Capinha               | CAP                 | CAP      | CAP     | CAP     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.821342 | 1.000000  | 0.465221    |
| MOSTMEG         | G_ARG#1       | Portugal | Iberian Massif | Argemela              | ARG                 | ARG      | ARG     | ARG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.818031 | 1.000000  | 0.463346    |

| Reference | Sample      | Country  | Location1      | Location2             | Type                   | id         | id2        | id3        | Age (Ma)                         | Event                            | Abund 88 | Sum abund | Atomic W 84 |
|-----------|-------------|----------|----------------|-----------------------|------------------------|------------|------------|------------|----------------------------------|----------------------------------|----------|-----------|-------------|
| MOSTMEG   | G_ARG#2     | Portugal | Iberian Massif | Argemela              | ARG                    | ARG        | ARG        | ARG        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.792962 | 1.000000  | 0.449146    |
| MOSTMEG   | SCB2#11     | Portugal | Iberian Massif | Panasqueira           | PAN                    | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.804389 | 1.000000  | 0.455619    |
| MOSTMEG   | SCB2#15     | Portugal | Iberian Massif | Panasqueira           | PAN                    | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.820674 | 1.000000  | 0.464843    |
| MOSTMEG   | Gf_MATOS#5  | Portugal | Iberian Massif | Matos                 | Granitic dyke          | Matos-Dyke | Matos-Dyke | Matos-Dyke | ?                                | ?                                | 0.825493 | 1.000000  | 0.467572    |
| MOSTMEG   | Gf_FURÃO#1  | Portugal | Iberian Massif | Zebreira              | Porphyritic dyke       | ZEB-Dyke   | ZEB-Dyke   | ZEB-Dyke   | ?                                | ?                                | 0.824018 | 1.000000  | 0.466737    |
| MOSTMEG   | Gf_SEG#3    | Portugal | Iberian Massif | Segura                | aplite-pegmatite dyke  | SEG-Dyke   | SEG-Dyke   | SEG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.817958 | 1.000000  | 0.463304    |
| MOSTMEG   | Gf_SEG#5    | Portugal | Iberian Massif | Segura                | aplite-pegmatite dyke  | SEG-Dyke   | SEG-Dyke   | SEG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.819542 | 1.000000  | 0.464202    |
| MOSTMEG   | Gf_CRESPO#2 | Portugal | Iberian Massif | Salvaterra do Extremo | Granitic dyke          | STEX-Dyke  | STEX-Dyke  | STEX-Dyke  | ?                                | ?                                | 0.824995 | 1.000000  | 0.467290    |
| MOSTMEG   | Gf_MONS#1A  | Portugal | Iberian Massif | Penamacor-Monsanto    | Pegmatitic dyke        | PM-Dyke    | PM-Dyke    | PM-Dyke    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.802649 | 1.000000  | 0.454633    |
| MOSTMEG   | Gf_IDN#2    | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Aplite dyke            | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 0.751699 | 1.000000  | 0.425774    |
| MOSTMEG   | Gf_IDN#4    | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Granitic dyke          | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 0.823720 | 1.000000  | 0.466568    |
| MOSTMEG   | Gf_MDCH#1   | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Aplite dyke            | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 0.761844 | 1.000000  | 0.431521    |
| MOSTMEG   | Gf_ARG#1    | Portugal | Iberian Massif | Argemela              | Pegmatitic dyke        | ARG-Dyke   | ARG-Dyke   | ARG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.801259 | 1.000000  | 0.453846    |
| MOSTMEG   | Gf_ARG#2    | Portugal | Iberian Massif | Argemela              | Aplite dyke            | ARG-Dyke   | ARG-Dyke   | ARG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.561352 | 1.000000  | 0.317959    |
| MOSTMEG   | SMN1#4      | Portugal | Iberian Massif | Panasqueira           | aplite-pegmatitic dyke | PAN-Dyke   | PAN-Dyke   | PAN-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.819048 | 1.000000  | 0.463922    |
| MOSTMEG   | P11_G       | Portugal | Iberian Massif | Panasqueira           | Greisen                | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.763485 | 1.000000  | 0.432450    |



| Reference        | Sample | Country  | Location1 | Location2 | Type | id          | id2 | id3 | Age (Ma) | Event          | Atomic W 86 | Atomic W 87 | Atomic W 88 |
|------------------|--------|----------|-----------|-----------|------|-------------|-----|-----|----------|----------------|-------------|-------------|-------------|
| MOSTMEG          | R#1    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 8.356031    | 6.412522    | 72.299030   |
| MOSTMEG          | R#5    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 8.356101    | 6.411846    | 72.299637   |
| MOSTMEG          | R#8    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 8.354726    | 6.425095    | 72.287738   |
| MOSTMEG          | R#13   | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 8.361125    | 6.363449    | 72.343106   |
| MOSTMEG          | MON#1  | Portugal | Portugal  | Portugal  | MP   | <i>RI</i>   | R   | R   | Upper E  | Pre-Ordovician | 8.358894    | 6.384947    | 72.323797   |
| MOSTMEG          | CM#1   | Portugal | Portugal  | Portugal  | XM   | <i>RI</i>   | R   | R   | Upper E  | Pre-Ordovician | 8.378670    | 6.194437    | 72.494906   |
| MOSTMEG          | RAP#1  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 8.368171    | 6.295570    | 72.404072   |
| MOSTMEG          | CBM#4  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 8.368154    | 6.295743    | 72.403917   |
| MOSTMEG          | CBM#5  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 8.367225    | 6.304689    | 72.395881   |
| MOSTMEG          | CBM#6  | Portugal | Portugal  | Portugal  | XM   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 8.361327    | 6.361502    | 72.344854   |
| MOSTMEG          | FOR#1  | Portugal | Portugal  | Portugal  | XM   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 8.360498    | 6.369490    | 72.337680   |
| MOSTMEG          | P#5    | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.361677    | 6.358131    | 72.347882   |
| MOSTMEG          | P#12   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.356670    | 6.406367    | 72.304558   |
| MOSTMEG          | P#13   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.351746    | 6.453806    | 72.261950   |
| MOSTMEG          | MT#1   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.348330    | 6.486708    | 72.232399   |
| MOSTMEG          | MT#9   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.355631    | 6.416373    | 72.295571   |
| MOSTMEG          | MT#12  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.366583    | 6.310869    | 72.390331   |
| MOSTMEG          | GAV#3  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.359632    | 6.377834    | 72.330185   |
| MOSTMEG          | CBM#1  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.352880    | 6.442881    | 72.271762   |
| MOSTMEG          | ING#1  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.342345    | 6.544369    | 72.180610   |
| MOSTMEG          | MT#11  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.373730    | 6.242022    | 72.452167   |
| MOSTMEG          | SCB2#1 | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.355313    | 6.419442    | 72.292814   |
| MOSTMEG          | ARG#1  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.153773    | 8.360939    | 70.549030   |
| MOSTMEG          | ARG#2  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.341793    | 6.549682    | 72.175837   |
| MOSTMEG          | P#11   | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.366004    | 6.316450    | 72.385318   |
| MOSTMEG          | R#12   | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.358143    | 6.392182    | 72.317299   |
| MOSTMEG          | FUN#1  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.360348    | 6.370939    | 72.336378   |
| MOSTMEG          | P#2    | Portugal | Portugal  | Portugal  | MP   | <i>MTI</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.360960    | 6.365044    | 72.341673   |
| MOSTMEG          | GAV#1  | Portugal | Portugal  | Portugal  | MP   | <i>Mti</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.365394    | 6.322328    | 72.380039   |
| MOSTMEG          | GAV#2  | Portugal | Portugal  | Portugal  | MP   | <i>Mti</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 8.348885    | 6.481364    | 72.237199   |
| sinari et al., 1 | BA-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.348942    | 6.480811    | 72.237695   |
| sinari et al., 1 | BA-5   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.348312    | 6.486887    | 72.232238   |
| sinari et al., 1 | BB-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.351056    | 6.460446    | 72.255987   |
| sinari et al., 1 | BB-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.360188    | 6.372473    | 72.335001   |
| sinari et al., 1 | RA-2   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.343245    | 6.535698    | 72.188397   |
| sinari et al., 1 | RA-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.332656    | 6.637703    | 72.096780   |
| sinari et al., 1 | RB-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.331897    | 6.645012    | 72.090215   |
| sinari et al., 1 | RB-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.323217    | 6.728627    | 72.015115   |
| sinari et al., 1 | RB-6   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.347001    | 6.499509    | 72.220901   |
| sinari et al., 1 | RB-8   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.362916    | 6.346194    | 72.358604   |
| sinari et al., 1 | AA-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.336468    | 6.600976    | 72.129767   |
| sinari et al., 1 | AA-2   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.343547    | 6.532782    | 72.191016   |
| sinari et al., 1 | AA-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.331032    | 6.653342    | 72.082733   |
| sinari et al., 1 | AA-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.330714    | 6.656407    | 72.079981   |
| sinari et al., 1 | A-1    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.349737    | 6.473155    | 72.244571   |
| sinari et al., 1 | A-2    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.362785    | 6.347460    | 72.357466   |
| sinari et al., 1 | A-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.338699    | 6.579491    | 72.149064   |
| sinari et al., 1 | B-3    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.369291    | 6.284783    | 72.413761   |
| sinari et al., 1 | B-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 8.360032    | 6.373976    | 72.333651   |

| Reference        | Sample | Country  | Location1 | Location2 | Type | id                 | id2 | id3 | Age (Ma)          | Event          | Atomic W 86 | Atomic W 87 | Atomic W 88 |
|------------------|--------|----------|-----------|-----------|------|--------------------|-----|-----|-------------------|----------------|-------------|-------------|-------------|
| sinari et al., 1 | B-5    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 8.369513    | 6.282642    | 72.415684   |
| sinari et al., 1 | C-2    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 8.362744    | 6.347856    | 72.357110   |
| sinari et al., 1 | C-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 8.357109    | 6.402135    | 72.308360   |
| sinari et al., 1 | FM-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 8.341045    | 6.556892    | 72.169362   |
| sinari et al., 1 | FM-2-1 | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 8.363911    | 6.336612    | 72.367210   |
| sinari et al., 1 | FM-2-2 | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 8.355132    | 6.421186    | 72.291248   |
| sinari et al., 1 | FM-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 8.354402    | 6.428219    | 72.284931   |
| sinari et al., 1 | FM-10  | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 8.346674    | 6.502664    | 72.218067   |
| xeira et al., 2  | DJ1    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 8.382334    | 6.159135    | 72.526614   |
| xeira et al., 2  | RI4    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 8.369390    | 6.283831    | 72.414615   |
| xeira et al., 2  | PI5    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 8.362974    | 6.345639    | 72.359102   |
| xeira et al., 2  | EV1    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 8.374332    | 6.236222    | 72.457376   |
| aseca et al., 2  | 110194 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 8.357276    | 6.400529    | 72.309801   |
| aseca et al., 2  | 110216 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 8.366806    | 6.308724    | 72.392257   |
| aseca et al., 2  | 110190 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 8.372888    | 6.250138    | 72.444878   |
| aseca et al., 2  | 111967 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 8.382342    | 6.159063    | 72.526678   |
| ijos et al., 20  | SSA-12 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 8.374027    | 6.239160    | 72.454738   |
| ijos et al., 20  | SIA-12 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 8.374027    | 6.239160    | 72.454738   |
| ijos et al., 20  | SIA-22 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 8.355025    | 6.422213    | 72.290326   |
| ijos et al., 20  | SIA-31 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 8.363862    | 6.337087    | 72.366783   |
| ijos et al., 20  | SIA-3  | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 8.375099    | 6.228838    | 72.464009   |
| ijos et al., 20  | SIA-25 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 8.365860    | 6.317837    | 72.384072   |
| aseca et al., 2  | 110191 | Spain    | Spain     | Spain     | C    | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 8.370449    | 6.273632    | 72.423776   |
| aseca et al., 2  | 110192 | Spain    | Spain     | Spain     | C    | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 8.370992    | 6.268396    | 72.428479   |
| ijos et al., 20  | SIA-33 | Spain    | Spain     | Spain     | MG   | <i>R_ES</i>        | BG  | BG  | Late E            | Pre-Ordovician | 8.367884    | 6.298341    | 72.401583   |
| ijos et al., 20  | FG-4   | Spain    | Spain     | Spain     | MP   | <i>R_ES</i>        | BG  | BG  | Late E            | Pre-Ordovician | 8.375676    | 6.223278    | 72.469002   |
| ijos et al., 19  | GUB-26 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 8.381352    | 6.168600    | 72.518112   |
| ijos et al., 20  | CR-5   | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 8.362925    | 6.346114    | 72.358675   |
| ijos et al., 20  | SSA-20 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 8.360123    | 6.373106    | 72.334432   |
| ijos et al., 20  | SSA-30 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 8.334492    | 6.620012    | 72.112669   |
| ijos et al., 20  | SSA-15 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 8.344979    | 6.518987    | 72.203406   |
| ijos et al., 19  | GUB-22 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 8.382475    | 6.157782    | 72.527828   |
| ijos et al., 19  | GUB-23 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 8.383755    | 6.145450    | 72.538905   |
| aseca et al., 1  | 93202  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 8.372898    | 6.250034    | 72.444971   |
| aseca et al., 1  | 93198  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 8.375593    | 6.224073    | 72.468289   |
| aseca et al., 1  | 93208  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 8.376888    | 6.211602    | 72.479489   |
| aseca et al., 1  | 90961  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 8.373986    | 6.239556    | 72.454381   |
| aseca et al., 1  | 92196  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 8.375189    | 6.227964    | 72.464793   |
| aseca et al., 1  | 77758  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 8.369217    | 6.285497    | 72.413120   |
| aseca et al., 1  | 92194  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 8.371111    | 6.267254    | 72.429505   |
| aseca et al., 1  | 92199  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 8.364667    | 6.329325    | 72.373755   |
| aseca et al., 2  | 77758a | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 8.369217    | 6.285497    | 72.413120   |
| aseca et al., 2  | 96874  | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 8.371174    | 6.266643    | 72.430053   |
| aseca et al., 2  | 111031 | Spain    | Spain     | Spain     | PG   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 8.352725    | 6.444375    | 72.270421   |
| aseca et al., 2  | 112025 | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 8.312740    | 6.829564    | 71.924458   |
| aseca et al., 2  | 112026 | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 8.373714    | 6.242176    | 72.452029   |
| aseca et al., 2  | 112027 | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 8.376409    | 6.216217    | 72.475344   |
| aseca et al., 2  | 108579 | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 8.361628    | 6.358607    | 72.347454   |
| aseca et al., 2  | 108583 | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 8.373233    | 6.246812    | 72.447865   |

| Reference       | Sample        | Country  | Location1      | Location2             | Type                | id       | id2     | id3     | Age (Ma)                         | Event                            | Atomic W 86 | Atomic W 87 | Atomic W 88 |
|-----------------|---------------|----------|----------------|-----------------------|---------------------|----------|---------|---------|----------------------------------|----------------------------------|-------------|-------------|-------------|
| aseca et al., 2 | 108582        | Spain    | Spain          | Spain                 | GRL                 | NZCI     | DG      | DG      | ?                                | Pre-Ordovician                   | 8.371956    | 6.259113    | 72.436816   |
| aseca et al., 1 | VO-16         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 8.379049    | 6.190782    | 72.498189   |
| aseca et al., 1 | VO-19         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 8.378876    | 6.192451    | 72.496690   |
| aseca et al., 1 | 92193         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 8.346641    | 6.502980    | 72.217784   |
| aseca et al., 1 | T-370         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 8.360238    | 6.371998    | 72.335427   |
| aseca et al., 1 | VI-3          | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 7.935769    | 10.461045   | 68.662788   |
| aseca et al., 1 | 92566         | Spain    | Spain          | Spain                 | PG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 8.381591    | 6.166293    | 72.520184   |
| aseca et al., 1 | U-50          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 8.385589    | 6.127781    | 72.554775   |
| aseca et al., 1 | U-49          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 8.385853    | 6.125233    | 72.557063   |
| aseca et al., 1 | U-92          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 8.383367    | 6.149190    | 72.535546   |
| aseca et al., 1 | U-93          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 8.389789    | 6.087319    | 72.591116   |
| aseca et al., 1 | U-145         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 8.384350    | 6.139720    | 72.544051   |
| aseca et al., 1 | U-146         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 8.388598    | 6.098793    | 72.580811   |
| aseca et al., 1 | U-147         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 8.390252    | 6.082856    | 72.595124   |
| aseca et al., 1 | U-152         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 8.384771    | 6.135661    | 72.547697   |
| aseca et al., 1 | U-155         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 8.387995    | 6.104608    | 72.575588   |
| aseca et al., 1 | U-157         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 8.388160    | 6.103015    | 72.577019   |
| aseca et al., 1 | U-141         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 8.385325    | 6.130328    | 72.552487   |
| aseca et al., 1 | U-90          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 8.381608    | 6.166134    | 72.520327   |
| aseca et al., 1 | U-91          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 8.381591    | 6.166293    | 72.520184   |
| aseca et al., 1 | U-42          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 8.380485    | 6.176949    | 72.510613   |
| aseca et al., 1 | U-96          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 8.376113    | 6.219069    | 72.472783   |
| aseca et al., 1 | U-10          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 8.386258    | 6.121332    | 72.560567   |
| Lopes 2015      | CR- 200538    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 8.381952    | 6.162818    | 72.523306   |
| Lopes 2015      | CR- 200547    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 8.380190    | 6.179788    | 72.508064   |
| Lopes 2015      | CR- 201472    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 8.365970    | 6.316776    | 72.385026   |
| Lopes 2015      | CR- 201512    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 8.381613    | 6.166086    | 72.520370   |
| Lopes 2015      | CR- 201543    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 8.375508    | 6.224899    | 72.467547   |
| Lopes 2015      | CR- 201611    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 8.383253    | 6.150280    | 72.534566   |
| Lopes 2015      | CR- 201660    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 8.377811    | 6.202711    | 72.487475   |
| MOSTMEG         | G_MATOS#1     | Portugal | Iberian Massif | Matos                 | Matos Granodiorite  | GMatos   | GMatos  | Matos   | Cambrian-Ordovician              | Cambrian-Ordovician              | 8.383689    | 6.146085    | 72.538334   |
| MOSTMEG         | G_ZEB#1       | Portugal | Iberian Massif | Zebreira              | ZEB-W               | GZEB     | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 8.339895    | 6.567964    | 72.159417   |
| MOSTMEG         | G_ZEB#4       | Portugal | Iberian Massif | Zebreira              | ZEB-W               | GZEB     | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 8.015856    | 9.689537    | 69.355729   |
| MOSTMEG         | G_MARCELINA#1 | Portugal | Iberian Massif | Zebreira              | Porphyritic granite | GZEB     | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 8.368763    | 6.289869    | 72.409192   |
| MOSTMEG         | G_IDN#2       | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | OIN-G4              | G4-OIN   | G4-OIN  | OIN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 8.303744    | 6.916224    | 71.846622   |
| MOSTMEG         | G_BATÃO#1     | Portugal | Iberian Massif | Batão                 | BATÃO               | BATÃO    | BATÃO   | BATÃO   | Cambrian-Ordovician              | Cambrian-Ordovician              | 8.389694    | 6.088233    | 72.590295   |
| MOSTMEG         | G_STEX#2      | Portugal | Iberian Massif | Salvaterra do Extremo | STEX                | STEX     | STEX    | STEX    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.221994    | 7.703748    | 71.139296   |
| MOSTMEG         | G_SEG#1       | Portugal | Iberian Massif | Segura                | SEG                 | G1-SEG   | G1-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.325579    | 6.705880    | 72.035546   |
| MOSTMEG         | G_SEG#2       | Portugal | Iberian Massif | Segura                | SEG                 | G2-SEG   | G2-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.213379    | 7.786737    | 71.064758   |
| MOSTMEG         | G_SEG#4       | Portugal | Iberian Massif | Segura                | SEG                 | G3-SEG   | G3-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.337376    | 6.592233    | 72.137620   |
| MOSTMEG         | G_MONS#2      | Portugal | Iberian Massif | Penamacor-Monsanto    | PM-G3               | PM-G3    | PM-G3   | PM      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.324385    | 6.717380    | 72.025217   |
| MOSTMEG         | G_MED#1       | Portugal | Iberian Massif | Penamacor-Monsanto    | PM-G6               | PM-G6    | PM-G6   | PM      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.181842    | 8.090540    | 70.791892   |
| MOSTMEG         | G_SEIXO#1     | Portugal | Iberian Massif | Orca                  | Orca-G2             | Orca-G2  | Orca-G2 | ORCA    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.300666    | 6.945876    | 71.819990   |
| MOSTMEG         | G_CB#3        | Portugal | Iberian Massif | Castelo Branco        | CB-G5               | CB-G5    | CB-G5   | CB      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.230286    | 7.623861    | 71.211048   |
| MOSTMEG         | G_FUN#2       | Portugal | Iberian Massif | Fundão                | FUN-G2              | FUN-G2   | FUN-G2  | FUN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 8.387772    | 6.106748    | 72.573665   |
| MOSTMEG         | G_FUN#4       | Portugal | Iberian Massif | Fundão                | FUN-G3              | FUN-G3   | FUN-G3  | FUN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 8.361887    | 6.356108    | 72.349699   |
| MOSTMEG         | G_LP#1        | Portugal | Iberian Massif | Fundão                | FUN-AT              | FUN-AT   | FUN-AT  | ATALAIA | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.296011    | 6.990711    | 71.779721   |
| MOSTMEG         | G_CAP#1       | Portugal | Iberian Massif | Capinha               | CAP                 | CAP      | CAP     | CAP     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.344648    | 6.522178    | 72.200541   |
| MOSTMEG         | G_ARG#1       | Portugal | Iberian Massif | Argemela              | ARG                 | ARG      | ARG     | ARG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.311016    | 6.846167    | 71.909545   |

| Reference | Sample      | Country  | Location1      | Location2             | Type                   | id         | id2        | id3        | Age (Ma)                         | Event                            | Atomic W 86 | Atomic W 87 | Atomic W 88 |
|-----------|-------------|----------|----------------|-----------------------|------------------------|------------|------------|------------|----------------------------------|----------------------------------|-------------|-------------|-------------|
| MOSTMEG   | G_ARG#2     | Portugal | Iberian Massif | Argemela              | ARG                    | ARG        | ARG        | ARG        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.056321    | 9.299722    | 69.705847   |
| MOSTMEG   | SCB2#11     | Portugal | Iberian Massif | Panasqueira           | PAN                    | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.172417    | 8.181332    | 70.710346   |
| MOSTMEG   | SCB2#15     | Portugal | Iberian Massif | Panasqueira           | PAN                    | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.337869    | 6.587485    | 72.141884   |
| MOSTMEG   | Gf_MATOS#5  | Portugal | Iberian Massif | Matos                 | Granitic dyke          | Matos-Dyke | Matos-Dyke | Matos-Dyke | ?                                | ?                                | 8.386823    | 6.115893    | 72.565451   |
| MOSTMEG   | Gf_FURÃO#1  | Portugal | Iberian Massif | Zebreira              | Porphyritic dyke       | ZEB-Dyke   | ZEB-Dyke   | ZEB-Dyke   | ?                                | ?                                | 8.371839    | 6.260240    | 72.435804   |
| MOSTMEG   | Gf_SEG#3    | Portugal | Iberian Massif | Segura                | aplite-pegmatite dyke  | SEG-Dyke   | SEG-Dyke   | SEG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.310272    | 6.853336    | 71.903106   |
| MOSTMEG   | Gf_SEG#5    | Portugal | Iberian Massif | Segura                | aplite-pegmatite dyke  | SEG-Dyke   | SEG-Dyke   | SEG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.326369    | 6.698269    | 72.042381   |
| MOSTMEG   | Gf_CRESPO#2 | Portugal | Iberian Massif | Salvaterra do Extremo | Granitic dyke          | STEX-Dyke  | STEX-Dyke  | STEX-Dyke  | ?                                | ?                                | 8.381768    | 6.164588    | 72.521715   |
| MOSTMEG   | Gf_MONS#1A  | Portugal | Iberian Massif | Penamacor-Monsanto    | Pegmatitic dyke        | PM-Dyke    | PM-Dyke    | PM-Dyke    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.154737    | 8.351652    | 70.557370   |
| MOSTMEG   | Gf_IDN#2    | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Aplite dyke            | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 7.637099    | 13.338230   | 66.078600   |
| MOSTMEG   | Gf_IDN#4    | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Granitic dyke          | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 8.368815    | 6.289375    | 72.409637   |
| MOSTMEG   | Gf_MDCH#1   | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Aplite dyke            | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 7.740169    | 12.345324   | 66.970394   |
| MOSTMEG   | Gf_ARG#1    | Portugal | Iberian Massif | Argemela              | Pegmatitic dyke        | ARG-Dyke   | ARG-Dyke   | ARG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.140616    | 8.487690    | 70.435186   |
| MOSTMEG   | Gf_ARG#2    | Portugal | Iberian Massif | Argemela              | Aplite dyke            | ARG-Dyke   | ARG-Dyke   | ARG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 5.703215    | 31.967965   | 49.346020   |
| MOSTMEG   | SMN1#4      | Portugal | Iberian Massif | Panasqueira           | aplite-pegmatitic dyke | PAN-Dyke   | PAN-Dyke   | PAN-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 8.321350    | 6.746614    | 71.998960   |
| MOSTMEG   | P11_G       | Portugal | Iberian Massif | Panasqueira           | Greisen                | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 7.756834    | 12.184779   | 67.114590   |

| Reference        | Sample | Country  | Location1 | Location2 | Type | id          | id2 | id3 | Age (Ma) | Event          | Atomic W Sr | Conversion Factor | <sup>87</sup> Rb/ <sup>86</sup> Sr |
|------------------|--------|----------|-----------|-----------|------|-------------|-----|-----|----------|----------------|-------------|-------------------|------------------------------------|
| MOSTMEG          | R#1    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 87.533438   | 2.902929          | 5.567914                           |
| MOSTMEG          | R#5    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 87.533444   | 2.902905          | 6.086737                           |
| MOSTMEG          | R#8    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 87.533341   | 2.903380          | 5.806759                           |
| MOSTMEG          | R#13   | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 87.533819   | 2.901173          | 4.944253                           |
| MOSTMEG          | MON#1  | Portugal | Portugal  | Portugal  | MP   | <i>Ri</i>   | R   | R   | Upper E  | Pre-Ordovician | 87.533652   | 2.901942          | 5.536013                           |
| MOSTMEG          | CM#1   | Portugal | Portugal  | Portugal  | XM   | <i>Ri</i>   | R   | R   | Upper E  | Pre-Ordovician | 87.535130   | 2.895142          | 1.930095                           |
| MOSTMEG          | RAP#1  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 87.534346   | 2.898748          | 2.852736                           |
| MOSTMEG          | CBM#4  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 87.534344   | 2.898754          | 3.178459                           |
| MOSTMEG          | CBM#5  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 87.534275   | 2.899074          | 3.732557                           |
| MOSTMEG          | CBM#6  | Portugal | Portugal  | Portugal  | XM   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 87.533834   | 2.901104          | 4.117696                           |
| MOSTMEG          | FOR#1  | Portugal | Portugal  | Portugal  | XM   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 87.533772   | 2.901390          | 5.129242                           |
| MOSTMEG          | P#5    | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.533860   | 2.900983          | 5.197595                           |
| MOSTMEG          | P#12   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.533486   | 2.902709          | 5.415502                           |
| MOSTMEG          | P#13   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.533118   | 2.904408          | 6.417806                           |
| MOSTMEG          | MT#1   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.532863   | 2.905588          | 8.407659                           |
| MOSTMEG          | MT#9   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.533408   | 2.903067          | 6.101362                           |
| MOSTMEG          | MT#12  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.534227   | 2.899294          | 3.993368                           |
| MOSTMEG          | GAV#3  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.533707   | 2.901688          | 5.803376                           |
| MOSTMEG          | CBM#1  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.533203   | 2.904017          | 6.470353                           |
| MOSTMEG          | ING#1  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.532415   | 2.907658          | 8.795666                           |
| MOSTMEG          | MT#11  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.534761   | 2.896838          | 2.804874                           |
| MOSTMEG          | SCB2#1 | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.533385   | 2.903177          | 6.274609                           |
| MOSTMEG          | ARG#1  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.518321   | 2.974424          | 66.272257                          |
| MOSTMEG          | ARG#2  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.532374   | 2.907849          | 11.019217                          |
| MOSTMEG          | P#11   | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.534184   | 2.899494          | 3.925468                           |
| MOSTMEG          | R#12   | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.533596   | 2.902201          | 5.078852                           |
| MOSTMEG          | FUN#1  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.533761   | 2.901441          | 5.888219                           |
| MOSTMEG          | P#2    | Portugal | Portugal  | Portugal  | MP   | <i>MTi</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.533807   | 2.901231          | 5.282838                           |
| MOSTMEG          | GAV#1  | Portugal | Portugal  | Portugal  | MP   | <i>Mti</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.534138   | 2.899704          | 4.409966                           |
| MOSTMEG          | GAV#2  | Portugal | Portugal  | Portugal  | MP   | <i>Mti</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 87.532904   | 2.905397          | 7.710475                           |
| sinari et al., 1 | BA-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.532908   | 2.905377          | 7.290851                           |
| sinari et al., 1 | BA-5   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.532861   | 2.905595          | 7.375740                           |
| sinari et al., 1 | BB-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.533066   | 2.904646          | 7.019562                           |
| sinari et al., 1 | BB-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.533749   | 2.901496          | 4.896275                           |
| sinari et al., 1 | RA-2   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.532483   | 2.907347          | 8.826815                           |
| sinari et al., 1 | RA-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.531691   | 2.911015          | 10.938950                          |
| sinari et al., 1 | RB-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.531634   | 2.911278          | 11.159640                          |
| sinari et al., 1 | RB-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.530986   | 2.914292          | 12.850197                          |
| sinari et al., 1 | RB-6   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.532763   | 2.906047          | 8.156711                           |
| sinari et al., 1 | RB-8   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.533953   | 2.900557          | 5.003608                           |
| sinari et al., 1 | AA-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.531976   | 2.909693          | 10.873063                          |
| sinari et al., 1 | AA-2   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.532505   | 2.907242          | 9.323511                           |
| sinari et al., 1 | AA-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.531570   | 2.911578          | 12.021078                          |
| sinari et al., 1 | AA-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.531546   | 2.911688          | 12.398390                          |
| sinari et al., 1 | A-1    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.532968   | 2.905102          | 6.411988                           |
| sinari et al., 1 | A-2    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.533943   | 2.900602          | 4.385371                           |
| sinari et al., 1 | A-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.532143   | 2.908920          | 9.599366                           |
| sinari et al., 1 | B-3    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.534429   | 2.898363          | 3.230357                           |
| sinari et al., 1 | B-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 87.533737   | 2.901550          | 5.289189                           |

| Reference        | Sample | Country  | Location1 | Location2 | Type | id                 | id2 | id3 | Age (Ma)          | Event          | Atomic W Sr | Conversion Factor | <sup>87</sup> Rb/ <sup>86</sup> Sr |
|------------------|--------|----------|-----------|-----------|------|--------------------|-----|-----|-------------------|----------------|-------------|-------------------|------------------------------------|
| sinari et al., 1 | B-5    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 87.534446   | 2.898287          | 3.077912                           |
| sinari et al., 1 | C-2    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 87.533940   | 2.900616          | 4.763397                           |
| sinari et al., 1 | C-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 87.533519   | 2.902558          | 5.943139                           |
| sinari et al., 1 | FM-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 87.532318   | 2.908108          | 10.065755                          |
| sinari et al., 1 | FM-2-1 | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 87.534027   | 2.900214          | 4.198462                           |
| sinari et al., 1 | FM-2-2 | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 87.533371   | 2.903240          | 6.667476                           |
| sinari et al., 1 | FM-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 87.533316   | 2.903492          | 7.095463                           |
| sinari et al., 1 | FM-10  | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 87.532739   | 2.906161          | 9.335465                           |
| xeira et al., 2  | DJ1    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 87.535404   | 2.893885          | 0.657255                           |
| xeira et al., 2  | RI4    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 87.534437   | 2.898329          | 4.374330                           |
| xeira et al., 2  | PI5    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 87.533957   | 2.900537          | 5.127211                           |
| xeira et al., 2  | EV1    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 87.534806   | 2.896631          | 3.484059                           |
| aseca et al., 2  | 110194 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 87.533531   | 2.902500          | 7.058353                           |
| aseca et al., 2  | 110216 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 87.534244   | 2.899218          | 4.491746                           |
| aseca et al., 2  | 110190 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 87.534698   | 2.897127          | 3.761941                           |
| aseca et al., 2  | 111967 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 87.535405   | 2.893883          | 2.098065                           |
| ijos et al., 20  | SSA-12 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 87.534783   | 2.896735          | 2.563298                           |
| ijos et al., 20  | SIA-12 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 87.534783   | 2.896735          | 5.881251                           |
| ijos et al., 20  | SIA-22 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 87.533363   | 2.903277          | 9.005534                           |
| ijos et al., 20  | SIA-31 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 87.534024   | 2.900231          | 4.742516                           |
| ijos et al., 20  | SIA-3  | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 87.534863   | 2.896368          | 3.211813                           |
| ijos et al., 20  | SIA-25 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 87.534173   | 2.899543          | 4.676683                           |
| aseca et al., 2  | 110191 | Spain    | Spain     | Spain     | C    | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 87.534516   | 2.897965          | 3.472336                           |
| aseca et al., 2  | 110192 | Spain    | Spain     | Spain     | C    | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 87.534557   | 2.897778          | 3.436303                           |
| ijos et al., 20  | SIA-33 | Spain    | Spain     | Spain     | MG   | <i>R_ES</i>        | BG  | BG  | Late E            | Pre-Ordovician | 87.534324   | 2.898847          | 3.771618                           |
| ijos et al., 20  | FG-4   | Spain    | Spain     | Spain     | MP   | <i>R_ES</i>        | BG  | BG  | Late E            | Pre-Ordovician | 87.534907   | 2.896169          | 3.485655                           |
| ijos et al., 19  | GUB-26 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 87.535331   | 2.894222          | 3.201185                           |
| ijos et al., 20  | CR-5   | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 87.533954   | 2.900554          | 5.843763                           |
| ijos et al., 20  | SSA-20 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 87.533744   | 2.901519          | 5.803038                           |
| ijos et al., 20  | SSA-30 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 87.531828   | 2.910378          | 11.653343                          |
| ijos et al., 20  | SSA-15 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 87.532612   | 2.906747          | 8.715677                           |
| ijos et al., 19  | GUB-22 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 87.535415   | 2.893837          | 3.013700                           |
| ijos et al., 19  | GUB-23 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 87.535510   | 2.893398          | 2.467899                           |
| aseca et al., 1  | 93202  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 87.534699   | 2.897123          | 2.380909                           |
| aseca et al., 1  | 93198  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 87.534900   | 2.896198          | 2.138543                           |
| aseca et al., 1  | 93208  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 87.534997   | 2.895753          | 1.658052                           |
| aseca et al., 1  | 90961  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 87.534780   | 2.896750          | 1.908447                           |
| aseca et al., 1  | 92196  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 87.534870   | 2.896336          | 1.948444                           |
| aseca et al., 1  | 77758  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 87.534424   | 2.898388          | 3.022605                           |
| aseca et al., 1  | 92194  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 87.534565   | 2.897737          | 3.908576                           |
| aseca et al., 1  | 92199  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 87.534084   | 2.899954          | 5.464123                           |
| aseca et al., 2  | 77758a | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 87.534424   | 2.898388          | 3.022605                           |
| aseca et al., 2  | 96874  | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 87.534570   | 2.897716          | 3.199931                           |
| aseca et al., 2  | 111031 | Spain    | Spain     | Spain     | PG   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 87.533191   | 2.904070          | 7.768388                           |
| aseca et al., 2  | 112025 | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 87.530203   | 2.917940          | 19.218154                          |
| aseca et al., 2  | 112026 | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 87.534760   | 2.896843          | 3.106759                           |
| aseca et al., 2  | 112027 | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 87.534961   | 2.895918          | 1.998057                           |
| aseca et al., 2  | 108579 | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 87.533857   | 2.901000          | 5.471805                           |
| aseca et al., 2  | 108583 | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 87.534724   | 2.897008          | 2.587994                           |

| Reference       | Sample        | Country  | Location1      | Location2             | Type                | id       | id2     | id3     | Age (Ma)                         | Event                            | Atomic W Sr | Conversion Factor | <sup>87</sup> Rb/ <sup>86</sup> Sr |
|-----------------|---------------|----------|----------------|-----------------------|---------------------|----------|---------|---------|----------------------------------|----------------------------------|-------------|-------------------|------------------------------------|
| aseca et al., 2 | 108582        | Spain    | Spain          | Spain                 | GRL                 | NZCI     | DG      | DG      | ?                                | Pre-Ordovician                   | 87.534629   | 2.897447          | 2.882035                           |
| aseca et al., 1 | VO-16         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 87.535159   | 2.895012          | 1.579097                           |
| aseca et al., 1 | VO-19         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 87.535146   | 2.895071          | 1.940652                           |
| aseca et al., 1 | 92193         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 87.532736   | 2.906172          | 8.184048                           |
| aseca et al., 1 | T-370         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 87.533753   | 2.901479          | 5.423326                           |
| aseca et al., 1 | VI-3          | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 87.502027   | 3.055566          | 82.063768                          |
| aseca et al., 1 | 92566         | Spain    | Spain          | Spain                 | PG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 87.535349   | 2.894140          | 1.550432                           |
| aseca et al., 1 | U-50          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 87.535648   | 2.892770          | 1.366030                           |
| aseca et al., 1 | U-49          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 87.535667   | 2.892680          | 0.905893                           |
| aseca et al., 1 | U-92          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 87.535481   | 2.893531          | 1.677906                           |
| aseca et al., 1 | U-93          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 87.535961   | 2.891332          | 1.037399                           |
| aseca et al., 1 | U-145         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 87.535555   | 2.893195          | 1.508817                           |
| aseca et al., 1 | U-146         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 87.535872   | 2.891740          | 1.042131                           |
| aseca et al., 1 | U-147         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 87.535996   | 2.891174          | 0.801644                           |
| aseca et al., 1 | U-152         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 87.535586   | 2.893050          | 1.024622                           |
| aseca et al., 1 | U-155         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 87.535827   | 2.891946          | 0.608831                           |
| aseca et al., 1 | U-157         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 87.535840   | 2.891890          | 0.656315                           |
| aseca et al., 1 | U-141         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 87.535628   | 2.892861          | 0.650333                           |
| aseca et al., 1 | U-90          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 87.535350   | 2.894134          | 1.565068                           |
| aseca et al., 1 | U-91          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 87.535349   | 2.894140          | 2.322458                           |
| aseca et al., 1 | U-42          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 87.535266   | 2.894519          | 2.837012                           |
| aseca et al., 1 | U-96          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 87.534939   | 2.896019          | 2.218228                           |
| aseca et al., 1 | U-10          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 87.535698   | 2.892541          | 2.283585                           |
| Lopes 2015      | CR- 200538    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 87.535376   | 2.894016          | 1.631173                           |
| Lopes 2015      | CR- 200547    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 87.535244   | 2.894620          | 2.191067                           |
| Lopes 2015      | CR- 201472    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 87.534181   | 2.899505          | 5.561778                           |
| Lopes 2015      | CR- 201512    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 87.535350   | 2.894133          | 2.074555                           |
| Lopes 2015      | CR- 201543    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 87.534894   | 2.896227          | 3.097354                           |
| Lopes 2015      | CR- 201611    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 87.535473   | 2.893570          | 1.409206                           |
| Lopes 2015      | CR- 201660    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 87.535066   | 2.895437          | 2.265137                           |
| MOSTMEG         | G_MATOS#1     | Portugal | Iberian Massif | Matos                 | Matos Granodiorite  | GMatos   | GMatos  | Matos   | Cambrian-Ordovician              | Cambrian-Ordovician              | 87.535506   | 2.893421          | 2.051420                           |
| MOSTMEG         | G_ZEB#1       | Portugal | Iberian Massif | Zebreira              | ZEB-W               | GZEB     | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 87.532232   | 2.908506          | 9.203628                           |
| MOSTMEG         | G_ZEB#4       | Portugal | Iberian Massif | Zebreira              | ZEB-W               | GZEB     | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 87.508013   | 3.025244          | 70.084825                          |
| MOSTMEG         | G_MARCELINA#1 | Portugal | Iberian Massif | Zebreira              | Porphyritic granite | GZEB     | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 87.534390   | 2.898545          | 5.823202                           |
| MOSTMEG         | G_IDN#2       | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | OIN-G4              | G4-OIN   | G4-OIN  | OIN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 87.529530   | 2.921078          | 13.749214                          |
| MOSTMEG         | G_BATÃO#1     | Portugal | Iberian Massif | Batão                 | BATÃO               | BATÃO    | BATÃO   | BATÃO   | Cambrian-Ordovician              | Cambrian-Ordovician              | 87.535954   | 2.891365          | 0.656088                           |
| MOSTMEG         | G_STEX#2      | Portugal | Iberian Massif | Salvaterra do Extremo | STEX                | STEX     | STEX    | STEX    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.523420   | 2.949916          | 28.923569                          |
| MOSTMEG         | G_SEG#1       | Portugal | Iberian Massif | Segura                | SEG                 | G1-SEG   | G1-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.531162   | 2.913472          | 15.011486                          |
| MOSTMEG         | G_SEG#2       | Portugal | Iberian Massif | Segura                | SEG                 | G2-SEG   | G2-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.522776   | 2.952989          | 42.905187                          |
| MOSTMEG         | G_SEG#4       | Portugal | Iberian Massif | Segura                | SEG                 | G3-SEG   | G3-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.532044   | 2.909379          | 14.150159                          |
| MOSTMEG         | G_MONS#2      | Portugal | Iberian Massif | Penamacor-Monsanto    | PM-G3               | PM-G3    | PM-G3   | PM      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.531073   | 2.913887          | 17.826130                          |
| MOSTMEG         | G_MED#1       | Portugal | Iberian Massif | Penamacor-Monsanto    | PM-G6               | PM-G6    | PM-G6   | PM      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.520419   | 2.964291          | 56.101952                          |
| MOSTMEG         | G_SEIXO#1     | Portugal | Iberian Massif | Orca                  | Orca-G2             | Orca-G2  | Orca-G2 | ORCA    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.529300   | 2.922154          | 25.047033                          |
| MOSTMEG         | G_CB#3        | Portugal | Iberian Massif | Castelo Branco        | CB-G5               | CB-G5    | CB-G5   | CB      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.524040   | 2.946965          | 40.587742                          |
| MOSTMEG         | G_FUN#2       | Portugal | Iberian Massif | Fundão                | FUN-G2              | FUN-G2   | FUN-G2  | FUN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 87.535811   | 2.892023          | 1.237738                           |
| MOSTMEG         | G_FUN#4       | Portugal | Iberian Massif | Fundão                | FUN-G3              | FUN-G3   | FUN-G3  | FUN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 87.533876   | 2.900911          | 5.522888                           |
| MOSTMEG         | G_LP#1        | Portugal | Iberian Massif | Fundão                | FUN-AT              | FUN-AT   | FUN-AT  | ATALAIA | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.528952   | 2.923782          | 24.791232                          |
| MOSTMEG         | G_CAP#1       | Portugal | Iberian Massif | Capinha               | CAP                 | CAP      | CAP     | CAP     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.532587   | 2.906861          | 11.451271                          |
| MOSTMEG         | G_ARG#1       | Portugal | Iberian Massif | Argemela              | ARG                 | ARG      | ARG     | ARG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.530074   | 2.918540          | 16.849306                          |

| Reference | Sample      | Country  | Location1      | Location2             | Type                   | id         | id2        | id3        | Age (Ma)                         | Event                            | Atomic W Sr | Conversion Factor | <sup>87</sup> Rb/ <sup>86</sup> Sr |
|-----------|-------------|----------|----------------|-----------------------|------------------------|------------|------------|------------|----------------------------------|----------------------------------|-------------|-------------------|------------------------------------|
| MOSTMEG   | G_ARG#2     | Portugal | Iberian Massif | Argemela              | ARG                    | ARG        | ARG        | ARG        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.511037   | 3.010153          | 115.216205                         |
| MOSTMEG   | SCB2#11     | Portugal | Iberian Massif | Panasqueira           | PAN                    | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.519714   | 2.967686          | 64.052549                          |
| MOSTMEG   | SCB2#15     | Portugal | Iberian Massif | Panasqueira           | PAN                    | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.532081   | 2.909208          | 12.005604                          |
| MOSTMEG   | Gf_MATOS#5  | Portugal | Iberian Massif | Matos                 | Granitic dyke          | Matos-Dyke | Matos-Dyke | Matos-Dyke | ?                                | ?                                | 87.535740   | 2.892348          | 0.491510                           |
| MOSTMEG   | Gf_FURÃO#1  | Portugal | Iberian Massif | Zebreira              | Porphyritic dyke       | ZEB-Dyke   | ZEB-Dyke   | ZEB-Dyke   | ?                                | ?                                | 87.534620   | 2.897487          | 4.678729                           |
| MOSTMEG   | Gf_SEG#3    | Portugal | Iberian Massif | Segura                | aplite-pegmatite dyke  | SEG-Dyke   | SEG-Dyke   | SEG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.530018   | 2.918800          | 18.551695                          |
| MOSTMEG   | Gf_SEG#5    | Portugal | Iberian Massif | Segura                | aplite-pegmatite dyke  | SEG-Dyke   | SEG-Dyke   | SEG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.531221   | 2.913197          | 11.719759                          |
| MOSTMEG   | Gf_CRESPO#2 | Portugal | Iberian Massif | Salvaterra do Extremo | Granitic dyke          | STEX-Dyke  | STEX-Dyke  | STEX-Dyke  | ?                                | ?                                | 87.535362   | 2.894079          | 1.389731                           |
| MOSTMEG   | Gf_MONS#1A  | Portugal | Iberian Massif | Penamacor-Monsanto    | Pegmatitic dyke        | PM-Dyke    | PM-Dyke    | PM-Dyke    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.518393   | 2.974075          | 67.570984                          |
| MOSTMEG   | Gf_IDN#2    | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Aplite dyke            | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 87.479703   | 3.174252          | 233.307539                         |
| MOSTMEG   | Gf_IDN#4    | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Granitic dyke          | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 87.534394   | 2.898527          | 6.313354                           |
| MOSTMEG   | Gf_MDCH#1   | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Aplite dyke            | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 87.487407   | 3.132259          | 173.527146                         |
| MOSTMEG   | Gf_ARG#1    | Portugal | Iberian Massif | Argemela              | Pegmatitic dyke        | ARG-Dyke   | ARG-Dyke   | ARG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.517337   | 2.979198          | 69.987513                          |
| MOSTMEG   | Gf_ARG#2    | Portugal | Iberian Massif | Argemela              | Aplite dyke            | ARG-Dyke   | ARG-Dyke   | ARG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.335159   | 4.243576          | 982.387759                         |
| MOSTMEG   | SMN1#4      | Portugal | Iberian Massif | Panasqueira           | aplito-pegmatitic dyke | PAN-Dyke   | PAN-Dyke   | PAN-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.530846   | 2.914942          | 16.565400                          |
| MOSTMEG   | P11_G       | Portugal | Iberian Massif | Panasqueira           | Greisen                | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 87.488652   | 3.125574          | 196.911149                         |



| Reference        | Sample | Country  | Location1 | Location2 | Type | id          | id2 | id3 | Age (Ma) | Event          | <sup>87</sup> Sr/ <sup>86</sup> Sr(t) | eSr(0) | eSr(t)    |
|------------------|--------|----------|-----------|-----------|------|-------------|-----|-----|----------|----------------|---------------------------------------|--------|-----------|
| MOSTMEG          | R#1    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 0.708580                              | 665    | 66.992    |
| MOSTMEG          | R#5    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 0.704509                              | 664    | 9.151     |
| MOSTMEG          | R#8    | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 0.708336                              | 688    | 63.524    |
| MOSTMEG          | R#13   | Portugal | Portugal  | Portugal  | MP   | <i>Ru</i>   | R   | R   | Lower C? | Pre-Ordovician | 0.707167                              | 577    | 46.917    |
| MOSTMEG          | MON#1  | Portugal | Portugal  | Portugal  | MP   | <i>RI</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.705338                              | 616    | 20.931    |
| MOSTMEG          | CM#1   | Portugal | Portugal  | Portugal  | XM   | <i>RI</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.709013                              | 275    | 73.137    |
| MOSTMEG          | RAP#1  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.714665                              | 455    | 153.446   |
| MOSTMEG          | CBM#4  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.712185                              | 456    | 118.205   |
| MOSTMEG          | CBM#5  | Portugal | Portugal  | Portugal  | MP   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.709057                              | 472    | 73.763    |
| MOSTMEG          | CBM#6  | Portugal | Portugal  | Portugal  | XM   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.713271                              | 574    | 133.636   |
| MOSTMEG          | FOR#1  | Portugal | Portugal  | Portugal  | XM   | <i>Rd</i>   | R   | R   | Upper E  | Pre-Ordovician | 0.706509                              | 588    | 37.572    |
| MOSTMEG          | P#5    | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.704549                              | 567    | 9.721     |
| MOSTMEG          | P#12   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.708972                              | 654    | 72.565    |
| MOSTMEG          | P#13   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.707276                              | 739    | 48.469    |
| MOSTMEG          | MT#1   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.696158                              | 798    | -109.491  |
| MOSTMEG          | MT#9   | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.704969                              | 672    | 15.692    |
| MOSTMEG          | MT#12  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.707833                              | 483    | 56.375    |
| MOSTMEG          | GAV#3  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.702385                              | 603    | -21.023   |
| MOSTMEG          | CBM#1  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.705489                              | 720    | 23.082    |
| MOSTMEG          | ING#1  | Portugal | Portugal  | Portugal  | MP   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.700490                              | 902    | -47.940   |
| MOSTMEG          | MT#11  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.708283                              | 360    | 62.773    |
| MOSTMEG          | SCB2#1 | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.704027                              | 677    | 2.300     |
| MOSTMEG          | ARG#1  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.494833                              | 4251   | -2969.766 |
| MOSTMEG          | ARG#2  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.684083                              | 912    | -281.044  |
| MOSTMEG          | P#11   | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.709059                              | 493    | 73.793    |
| MOSTMEG          | R#12   | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.709765                              | 629    | 83.823    |
| MOSTMEG          | FUN#1  | Portugal | Portugal  | Portugal  | XM   | <i>MTu</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.700862                              | 590    | -42.664   |
| MOSTMEG          | P#2    | Portugal | Portugal  | Portugal  | MP   | <i>MTI</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.704767                              | 580    | 12.826    |
| MOSTMEG          | GAV#1  | Portugal | Portugal  | Portugal  | MP   | <i>Mtl</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.706079                              | 503    | 31.453    |
| MOSTMEG          | GAV#2  | Portugal | Portugal  | Portugal  | MP   | <i>Mtl</i>  | MT  | MT  | Upper E  | Pre-Ordovician | 0.700837                              | 789    | -43.020   |
| sinari et al., 1 | BA-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.703990                              | 788    | 1.784     |
| sinari et al., 1 | BA-5   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.704108                              | 799    | 3.458     |
| sinari et al., 1 | BB-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.703494                              | 751    | -5.262    |
| sinari et al., 1 | BB-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.708676                              | 593    | 68.353    |
| sinari et al., 1 | RA-2   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.699151                              | 887    | -66.974   |
| sinari et al., 1 | RA-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.695885                              | 1071   | -113.372  |
| sinari et al., 1 | RB-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.695119                              | 1084   | -124.246  |
| sinari et al., 1 | RB-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.692782                              | 1235   | -157.452  |
| sinari et al., 1 | RB-6   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.699709                              | 821    | -59.048   |
| sinari et al., 1 | RB-8   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.704531                              | 546    | 9.471     |
| sinari et al., 1 | AA-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.691721                              | 1004   | -172.529  |
| sinari et al., 1 | AA-2   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.694965                              | 881    | -126.441  |
| sinari et al., 1 | AA-3   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.689562                              | 1099   | -203.207  |
| sinari et al., 1 | AA-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.687053                              | 1104   | -238.847  |
| sinari et al., 1 | A-1    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.709772                              | 774    | 83.924    |
| sinari et al., 1 | A-2    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.709441                              | 548    | 79.220    |
| sinari et al., 1 | A-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.698776                              | 966    | -72.300   |
| sinari et al., 1 | B-3    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.710404                              | 436    | 92.902    |
| sinari et al., 1 | B-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i> | R   | R   | Upper E  | Pre-Ordovician | 0.705847                              | 596    | 28.169    |

| Reference        | Sample | Country  | Location1 | Location2 | Type | id                 | id2 | id3 | Age (Ma)          | Event          | $^{87}\text{Sr}/^{86}\text{Sr}_t$ | $e\text{Sr}_0$ | $e\text{Sr}_t$ |
|------------------|--------|----------|-----------|-----------|------|--------------------|-----|-----|-------------------|----------------|-----------------------------------|----------------|----------------|
| sinari et al., 1 | B-5    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.711305                          | 432            | 105.705        |
| sinari et al., 1 | C-2    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.706587                          | 549            | 38.672         |
| sinari et al., 1 | C-4    | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.704384                          | 646            | 7.373          |
| sinari et al., 1 | FM-1   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.692323                          | 925            | -163.978       |
| sinari et al., 1 | FM-2-1 | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.709507                          | 529            | 80.156         |
| sinari et al., 1 | FM-2-2 | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.701229                          | 681            | -37.444        |
| sinari et al., 1 | FM-4   | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.698831                          | 693            | -71.512        |
| sinari et al., 1 | FM-10  | Portugal | Portugal  | Portugal  | MP   | <i>R_PT</i>        | R   | R   | Upper E           | Pre-Ordovician | 0.691053                          | 827            | -182.018       |
| xeira et al., 2  | DJ1    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 0.714351                          | 211            | 148.980        |
| xeira et al., 2  | RI4    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 0.701496                          | 434            | -33.659        |
| xeira et al., 2  | PI5    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 0.703512                          | 545            | -5.014         |
| xeira et al., 2  | EV1    | Portugal | Portugal  | Portugal  | MP   | <i>Douro Group</i> | DG  | DG  | Upper E - Lower C | Pre-Ordovician | 0.702335                          | 349            | -21.736        |
| aseca et al., 2  | 110194 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.695613                          | 644            | -117.229       |
| aseca et al., 2  | 110216 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.703734                          | 479            | -1.864         |
| aseca et al., 2  | 110190 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.701953                          | 374            | -27.160        |
| aseca et al., 2  | 111967 | Spain    | Spain     | Spain     | MP   | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.703273                          | 211            | -8.403         |
| ijos et al., 20  | SSA-12 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.709778                          | 354            | 84.015         |
| ijos et al., 20  | SIA-12 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.684289                          | 354            | -278.116       |
| ijos et al., 20  | SIA-22 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.683398                          | 682            | -290.780       |
| ijos et al., 20  | SIA-31 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.705387                          | 530            | 21.629         |
| ijos et al., 20  | SIA-3  | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.703496                          | 336            | -5.235         |
| ijos et al., 20  | SIA-25 | Spain    | Spain     | Spain     | MP   | <i>MT_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.703463                          | 495            | -5.710         |
| aseca et al., 2  | 110191 | Spain    | Spain     | Spain     | C    | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.707139                          | 416            | 46.517         |
| aseca et al., 2  | 110192 | Spain    | Spain     | Spain     | C    | <i>BG_ES</i>       | BG  | BG  | Upper E           | Pre-Ordovician | 0.706756                          | 407            | 41.073         |
| ijos et al., 20  | SIA-33 | Spain    | Spain     | Spain     | MG   | <i>R_ES</i>        | BG  | BG  | Late E            | Pre-Ordovician | 0.707956                          | 460            | 58.122         |
| ijos et al., 20  | FG-4   | Spain    | Spain     | Spain     | MP   | <i>R_ES</i>        | BG  | BG  | Late E            | Pre-Ordovician | 0.700692                          | 326            | -45.068        |
| ijos et al., 19  | GUB-26 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.695998                          | 228            | -111.766       |
| ijos et al., 20  | CR-5   | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.698067                          | 546            | -82.369        |
| ijos et al., 20  | SSA-20 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.701790                          | 594            | -29.477        |
| ijos et al., 20  | SSA-30 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.688147                          | 1039           | -223.310       |
| ijos et al., 20  | SSA-15 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.697884                          | 856            | -84.963        |
| ijos et al., 19  | GUB-22 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.696078                          | 209            | -110.625       |
| ijos et al., 19  | GUB-23 | Spain    | Spain     | Spain     | MP   | <i>DG_SP</i>       | DG  | DG  | Lower C           | Pre-Ordovician | 0.698721                          | 187            | -73.076        |
| aseca et al., 1  | 93202  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.712549                          | 374            | 123.386        |
| aseca et al., 1  | 93198  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.711141                          | 327            | 103.381        |
| aseca et al., 1  | 93208  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.713263                          | 305            | 133.518        |
| aseca et al., 1  | 90961  | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.714859                          | 355            | 156.198        |
| aseca et al., 1  | 92196  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.713092                          | 334            | 131.090        |
| aseca et al., 1  | 77758  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.712090                          | 437            | 116.856        |
| aseca et al., 1  | 92194  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.702984                          | 405            | -12.519        |
| aseca et al., 1  | 92199  | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.698864                          | 516            | -71.053        |
| aseca et al., 2  | 77758a | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.712090                          | 437            | 116.856        |
| aseca et al., 2  | 96874  | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.708350                          | 404            | 63.731         |
| aseca et al., 2  | 111031 | Spain    | Spain     | Spain     | PG   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.695707                          | 722            | -115.903       |
| aseca et al., 2  | 112025 | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.656748                          | 1418           | -669.396       |
| aseca et al., 2  | 112026 | Spain    | Spain     | Spain     | MP   | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.705983                          | 360            | 30.099         |
| aseca et al., 2  | 112027 | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.711232                          | 313            | 104.663        |
| aseca et al., 2  | 108579 | Spain    | Spain     | Spain     | MGM  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.702502                          | 568            | -19.353        |
| aseca et al., 2  | 108583 | Spain    | Spain     | Spain     | GRL  | <i>NZCI</i>        | DG  | DG  | ?                 | Pre-Ordovician | 0.710553                          | 368            | 95.016         |

| Reference       | Sample        | Country  | Location1      | Location2             | Type                | id       | id2     | id3     | Age (Ma)                         | Event                            | <sup>87</sup> Sr/ <sup>86</sup> Sr <sub>t</sub> | eSr <sub>(0)</sub> | eSr <sub>(t)</sub> |
|-----------------|---------------|----------|----------------|-----------------------|---------------------|----------|---------|---------|----------------------------------|----------------------------------|---|--------------------|--------------------|
| aseca et al., 2 | 108582        | Spain    | Spain          | Spain                 | GRL                 | NZCI     | DG      | DG      | ?                                | Pre-Ordovician                   | 0.709844  | 390                | 84.945             |
| aseca et al., 1 | VO-16         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 0.711249  | 268                | 104.912            |
| aseca et al., 1 | VO-19         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 0.708682  | 271                | 68.434             |
| aseca et al., 1 | 92193         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 0.699939  | 828                | -55.780            |
| aseca et al., 1 | T-370         | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 0.704567  | 592                | 9.977              |
| aseca et al., 1 | VI-3          | Spain    | Spain          | Spain                 | OG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 0.660200  | 8320               | -620.360           |
| aseca et al., 1 | 92566         | Spain    | Spain          | Spain                 | PG                  | SCS      | SCS     | SCS     | ?                                | Pre-Ordovician                   | 0.708389  | 224                | 64.282             |
| aseca et al., 1 | U-50          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.704966  | 156                | 15.645             |
| aseca et al., 1 | U-49          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.708181  | 151                | 61.320             |
| aseca et al., 1 | U-92          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.705260  | 194                | 19.824             |
| aseca et al., 1 | U-93          | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.702410  | 83                 | -20.660            |
| aseca et al., 1 | U-145         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.705369  | 177                | 21.372             |
| aseca et al., 1 | U-146         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.703814  | 104                | -0.718             |
| aseca et al., 1 | U-147         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.703662  | 76                 | -2.885             |
| aseca et al., 1 | U-152         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.708579  | 170                | 66.973             |
| aseca et al., 1 | U-155         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.707873  | 114                | 56.945             |
| aseca et al., 1 | U-157         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.707308  | 111                | 48.921             |
| aseca et al., 1 | U-141         | Spain    | Spain          | Spain                 | FX                  | FPG      | FPG     | FPG     | ?                                | Pre-Ordovician                   | 0.710784  | 160                | 98.305             |
| aseca et al., 1 | U-90          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 0.708257  | 224                | 62.400             |
| aseca et al., 1 | U-91          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 0.702458  | 224                | -19.979            |
| aseca et al., 1 | U-42          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 0.699846  | 243                | -57.102            |
| aseca et al., 1 | U-96          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 0.709899  | 319                | 85.733             |
| aseca et al., 1 | U-10          | Spain    | Spain          | Spain                 | PX                  | PPG      | PPG     | PPG     | ?                                | Pre-Ordovician                   | 0.697107  | 144                | -96.008            |
| Lopes 2015      | CR- 200538    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.707332  | 218                | 49.261             |
| Lopes 2015      | CR- 200547    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.705165  | 248                | 18.471             |
| Lopes 2015      | CR- 201472    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.696529  | 493                | -104.216           |
| Lopes 2015      | CR- 201512    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.704337  | 224                | 6.708              |
| Lopes 2015      | CR- 201543    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.703880  | 329                | 0.211              |
| Lopes 2015      | CR- 201611    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.707461  | 196                | 51.097             |
| Lopes 2015      | CR- 201660    | Spain    | Spain          | Spain                 | PG                  | Escoural | SN      | SN      | Ediacarian                       | Pre-Ordovician                   | 0.707480  | 289                | 51.360             |
| MOSTMEG         | G_MATOS#1     | Portugal | Iberian Massif | Matos                 | Matos Granodiorite  | GMatos   | GMatos  | Matos   | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.703777  | 188                | -1.242             |
| MOSTMEG         | G_ZEB#1       | Portugal | Iberian Massif | Zebreira              | ZEB-W               | GZEB     | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.708324  | 945                | 63.355             |
| MOSTMEG         | G_ZEB#4       | Portugal | Iberian Massif | Zebreira              | ZEB-W               | GZEB     | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.705803  | 6799               | 27.543             |
| MOSTMEG         | G_MARCELINA#1 | Portugal | Iberian Massif | Zebreira              | Porphyritic granite | GZEB     | GZEB    | ZEB     | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.696171  | 445                | -109.313           |
| MOSTMEG         | G_IDN#2       | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | OIN-G4              | G4-OIN   | G4-OIN  | OIN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.721761  | 1575               | 254.254            |
| MOSTMEG         | G_BATÃO#1     | Portugal | Iberian Massif | Batão                 | BATÃO               | BATÃO    | BATÃO   | BATÃO   | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.706023  | 85                 | 30.661             |
| MOSTMEG         | G_STEX#2      | Portugal | Iberian Massif | Salvaterra do Extremo | STEX                | STEX     | STEX    | STEX    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.790040  | 3021               | 1224.320           |
| MOSTMEG         | G_SEG#1       | Portugal | Iberian Massif | Segura                | SEG                 | G1-SEG   | G1-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.722520  | 1194               | 265.041            |
| MOSTMEG         | G_SEG#2       | Portugal | Iberian Massif | Segura                | SEG                 | G2-SEG   | G2-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.739348  | 3176               | 504.121            |
| MOSTMEG         | G_SEG#4       | Portugal | Iberian Massif | Segura                | SEG                 | G3-SEG   | G3-SEG  | SEG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.711850  | 988                | 113.447            |
| MOSTMEG         | G_MONS#2      | Portugal | Iberian Massif | Penamacor-Monsanto    | PM-G3               | PM-G3    | PM-G3   | PM      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.711596  | 1215               | 109.834            |
| MOSTMEG         | G_MED#1       | Portugal | Iberian Massif | Penamacor-Monsanto    | PM-G6               | PM-G6    | PM-G6   | PM      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.721188  | 3742               | 246.118            |
| MOSTMEG         | G_SEIXO#1     | Portugal | Iberian Massif | Orca                  | Orca-G2             | Orca-G2  | Orca-G2 | ORCA    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.709018  | 1629               | 73.218             |
| MOSTMEG         | G_CB#3        | Portugal | Iberian Massif | Castelo Branco        | CB-G5               | CB-G5    | CB-G5   | CB      | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.728267  | 2873               | 346.688            |
| MOSTMEG         | G_FUN#2       | Portugal | Iberian Massif | Fundão                | FUN-G2              | FUN-G2   | FUN-G2  | FUN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.704382  | 118                | 7.353              |
| MOSTMEG         | G_FUN#4       | Portugal | Iberian Massif | Fundão                | FUN-G3              | FUN-G3   | FUN-G3  | FUN     | Cambrian-Ordovician              | Cambrian-Ordovician              | 0.706578  | 564                | 38.553             |
| MOSTMEG         | G_LP#1        | Portugal | Iberian Massif | Fundão                | FUN-AT              | FUN-AT   | FUN-AT  | ATALAIA | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.715895  | 1711               | 170.920            |
| MOSTMEG         | G_CAP#1       | Portugal | Iberian Massif | Capinha               | CAP                 | CAP      | CAP     | CAP     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.714836  | 862                | 155.876            |
| MOSTMEG         | G_ARG#1       | Portugal | Iberian Massif | Argemela              | ARG                 | ARG      | ARG     | ARG     | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.732338  | 1448               | 404.530            |

| Reference | Sample      | Country  | Location1      | Location2             | Type                   | id         | id2        | id3        | Age (Ma)                         | Event                            | $^{87}\text{Sr}/^{86}\text{Sr}_{(t)}$ | eSr <sub>(0)</sub> | eSr <sub>(t)</sub> |
|-----------|-------------|----------|----------------|-----------------------|------------------------|------------|------------|------------|----------------------------------|----------------------------------|---------------------------------------|--------------------|--------------------|
| MOSTMEG   | G_ARG#2     | Portugal | Iberian Massif | Argemela              | ARG                    | ARG        | ARG        | ARG        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.623002                              | 6042               | -1148.845          |
| MOSTMEG   | SCB2#11     | Portugal | Iberian Massif | Panasqueira           | PAN                    | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.698183                              | 3913               | -80.719            |
| MOSTMEG   | SCB2#15     | Portugal | Iberian Massif | Panasqueira           | PAN                    | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.720687                              | 980                | 238.998            |
| MOSTMEG   | Gf_MATOS#5  | Portugal | Iberian Massif | Matos                 | Granitic dyke          | Matos-Dyke | Matos-Dyke | Matos-Dyke | ?                                | ?                                | 0.711803                              | 134                | 112.787            |
| MOSTMEG   | Gf_FURÃO#1  | Portugal | Iberian Massif | Zebreira              | Porphyritic dyke       | ZEB-Dyke   | ZEB-Dyke   | ZEB-Dyke   | ?                                | ?                                | 0.711530                              | 392                | 108.907            |
| MOSTMEG   | Gf_SEG#3    | Portugal | Iberian Massif | Segura                | aplite-pegmatite dyke  | SEG-Dyke   | SEG-Dyke   | SEG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.725761                              | 1461               | 311.087            |
| MOSTMEG   | Gf_SEG#5    | Portugal | Iberian Massif | Segura                | aplite-pegmatite dyke  | SEG-Dyke   | SEG-Dyke   | SEG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.736040                              | 1180               | 457.130            |
| MOSTMEG   | Gf_CRESPO#2 | Portugal | Iberian Massif | Salvaterra do Extremo | Granitic dyke          | STEX-Dyke  | STEX-Dyke  | STEX-Dyke  | ?                                | ?                                | 0.713968                              | 221                | 143.541            |
| MOSTMEG   | Gf_MONS#1A  | Portugal | Iberian Massif | Penamacor-Monsanto    | Pegmatitic dyke        | PM-Dyke    | PM-Dyke    | PM-Dyke    | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.705269                              | 4233               | 19.952             |
| MOSTMEG   | Gf_IDN#2    | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Aplite dyke            | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 0.682938                              | 14272              | -297.305           |
| MOSTMEG   | Gf_IDN#4    | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Granitic dyke          | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 0.708008                              | 444                | 58.861             |
| MOSTMEG   | Gf_MDCH#1   | Portugal | Iberian Massif | Oledo-Idanha-a-Nova   | Aplite dyke            | OIN-Dyke   | OIN-Dyke   | OIN-Dyke   | ?                                | ?                                | 0.797726                              | 12166              | 1333.517           |
| MOSTMEG   | Gf_ARG#1    | Portugal | Iberian Massif | Argemela              | Pegmatitic dyke        | ARG-Dyke   | ARG-Dyke   | ARG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.712732                              | 4490               | 125.983            |
| MOSTMEG   | Gf_ARG#2    | Portugal | Iberian Massif | Argemela              | Aplite dyke            | ARG-Dyke   | ARG-Dyke   | ARG-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 1.163490                              | 67899              | 6530.021           |
| MOSTMEG   | SMN1#4      | Portugal | Iberian Massif | Panasqueira           | aplite-pegmatitic dyke | PAN-Dyke   | PAN-Dyke   | PAN-Dyke   | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.720873                              | 1267               | 241.642            |
| MOSTMEG   | P11_G       | Portugal | Iberian Massif | Panasqueira           | Greisen                | PAN        | PAN        | PAN        | Late Carboniferous-Early Permian | Late Carboniferous-Early Permian | 0.671171                              | 11831              | -464.494           |