**Figure S1 AMF OTUs sequencing rarefaction curve of different plant roots in Tibetan alpine meadow**

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**Figure S2 AMF OTUs phylogenetic tree of 23 plant roots in Tibetan alpine meadow**

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Graph4**Figure S3 AMF OTUs genera percentage composition of different plants in Tibetan alpine meadow**

**Table S1 AMF OTUs information of different plants in Tibetan alpine meadow**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Order（3） | Families (6) | Genus (9) | OTU richness | Reads |
| Glomerales | Claroideoglomeraceae | *Claroideoglomus* | 14 | 40 919 |
| Glomeraceae | *Dominikia* | 1 | 106 |
| *Funneliformis* | 2 | 1782 |
| *Glomus* | 84 | 181 013 |
| *Rhizophagus* | 12 | 117 836 |
| Diversisporales | Acaulosporaceae | *Acaulospora* | 4 | 2662 |
| Diversisporaceae | *Diversispora* | 2 | 474 |
| Gigasporaceace | *Scutellospora* | 1 | 80 |
| Paraglomerales | Paraglomeraceae | *Paraglomus* | 1 | 128 |
| Total reads | | | 121 | 345 000 |