**Supplementary Table 7.** List of the JMT from different species

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| **No** | **Species** | ***Name*** | **GenBank accession** |
| 1 | *Erythranthe guttata* | Jasmonate O-methyltransferase-like | XP\_012846912 |
| 2 | *Sesamum indicum* | jasmonate O-methyltransferase | XP\_011083897 |
| 3 | *Durio zibethinus* | Jasmonate O-methyltransferase-like | XP\_022752170 |
| 4 | *Gossypium hirsutum* | Jasmonate O-methyltransferase-like | XP\_016749084 |
| 5 | *Manihot esculenta* | jasmonate O-methyltransferase | XP\_021612254 |
| 6 | *Theobroma cacao* | Jasmonic acid carboxyl methyltransferase | EOY14825 |
| 7 | *Prunus mume* | jasmonate O-methyltransferase-like | XP\_008220839 |
| 8 | *Jatropha curcas* | jasmonate O-methyltransferase | XP\_012071905 |
| 9 | *Ricinus communis* | jasmonate O-methyltransferase | XP\_002510424 |
| 10 | *Capsicum chinense* | Jasmonate O-methyltransferase | PHT98846 |
| 11 | *Brassica napus* | jasmonate O-methyltransferase | XP\_013713989 |
| 12 | *Malus domestica* | jasmonate O-methyltransferase-like | XP\_008388031 |
| 13 | *Hevea brasiliensis* | jasmonate O-methyltransferase | XP\_021663638 |
| 14 | *Citrus sinensis* | jasmonate O-methyltransferase-like | XP\_006478462 |
| 15 | *Helianthus annuus* | jasmonate O-methyltransferase-like | XP\_022000380 |
| 16 | *Citrus clementina* | jasmonate O-methyltransferase-like | XP\_024042875 |
| 17 | *Prunus avium* | jasmonate O-methyltransferase-like | XP\_021831606 |
| 18 | *Pyrus x bretschneideri* | jasmonate O-methyltransferase-like | XP\_009336030 |
| 19 | *Prunus persica* | jasmonate O-methyltransferase | XP\_007223087 |
| 20 | *Solanum tuberosum* | jasmonate O-methyltransferase | XP\_006341965 |
| 21 | *Brassica rapa* | jasmonate O-methyltransferase-like | XP\_009103381 |
| 22 | *Nicotiana attenuata* | jasmonate O-methyltransferase | XP\_019267341 |
| 23 | *Brassica oleracea* | jasmonate O-methyltransferase-like | XP\_013584159 |
| 24 | *Lactuca sativa* | jasmonate O-methyltransferase | XP\_023767190 |
| 25 | *Solanum lycopersicum* | jasmonate O-methyltransferase | XP\_004238275 |
| 26 | *Fragaria vesca* | jasmonate O-methyltransferase-like | XP\_004291852 |
| 27 | *Salvia\_miltiorrhiza* | Jasmonic acid carboxyl methyltransferase | MH136806 |
| 28 | *Arabidopsis thaliana* | jasmonic acid carboxyl methyltransferase | AEE29876 |