**Table S1 Ypt homologous genes in the *M. ruber* M7 genome**

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| --- | --- | --- | --- |
| Ypt group(Fungi) | Gene ID(*M. ruber* M7 genome ) | Homologous fungi (Accession) | Identity(%) |
| Ypt1/ YptA | GME380 | *A.kawachii* (GAA88155.1) | 92 |
| Ypt2 | GME1186 | *A.niger*(XP\_001400630.1) | 96 |
| Ypt3/ Ypt8 | GME7826 | *A.steynii*(XP\_024700564.1) | 94 |
| Ypt4 | GME1936 | *A.fumigatus*(XP\_746678.2) | 77 |
| Ypt5/ Ypt10 | GME8000 | *A.clavatus*(XP\_001271697.1) | 93 |
| Ypt6/ Ypt11 | GME2006 | *A.fumigatus*(XP\_755892.1) | 99 |
| Ypt7 | GME5756 | *A.fischeri*(XP\_001259484.1) | 91 |
|  |  | *A. oryzae*(XP\_001824054.1) | 91 |
|  |  | *A. niger*(XP\_001398680.2) | 91 |
|  |  | *P. oxalicum*(EPS32522.1) | 91 |
|  |  | *P. zonata*(XP\_022585464.1) | 91 |
|  |  |  |  |