

**Supplementary Table S3.** the MT genes in each orthogroup

<b>Name</b>	<b>Os</b>	<b>Or</b>	<b>On</b>	<b>Oi</b>	<b>Og</b>	<b>Ob</b>
Orthogroup0	OsMT-6	OrMT-7, OrMT-9	OnMT-6	OiMT-6, OiMT-7, OiMT-12	OgMT-5, OgMT-7	ObMT-7
Orthogroup1	OsMT-2	OrMT-2	OnMT-4	OiMT-3	OgMT-2	ObMT-1
Orthogroup2	OsMT-4	OrMT-3		OiMT-5, OiMT-10	OgMT-4	ObMT-3
Orthogroup3	OsMT-8	OrMT-5	OnMT-3	OiMT-11		ObMT-5, ObMT-9
Orthogroup4	OsMT-7	OrMT-8	OnMT-2	OiMT-9	OgMT-6	ObMT-8
Orthogroup5	OsMT-1	OrMT-1	OnMT-1	OiMT-1, OiMT-2	OgMT-1	
Orthogroup6	OsMT-5, OsMT-9	OrMT-4		OiMT-8		ObMT-4
Orthogroup7			OnMT-7		OgMT-3	ObMT-2
Orthogroup8		OrMT-6	OnMT-5			ObMT-6