

**Supplementary Table 15. Statistical results of clustered gene families.**

<b>Species</b>	<b>Genes</b>	<b>Unclustered genes</b>	<b>Clustered genes</b>	<b>Families</b>	<b>Unique families</b>	<b>Unique families genes</b>	<b>Common families</b>	<b>Common families genes</b>	<b>Single copy</b>	<b>Average genes per family</b>
<i>A. comosus</i>	27,024	5,496	21,528	12,953	787	3,432	3,945	7,056	267	1.662
<i>A. officinalis</i>	27,375	7,776	19,599	11,957	829	3,495	3,945	6,912	267	1.639
<i>A. shenzhenica</i>	20,560	4,011	16,549	11,837	338	1,378	3,945	6,132	267	1.398
<i>A. thaliana</i>	27,416	4,010	23,406	12,656	788	3,263	3,945	8,117	267	1.849
<i>A. trichopoda</i>	25,933	7,110	18,823	12,248	978	4,241	3,945	5,711	267	1.537
<i>B. distachyon</i>	26,415	3,420	22,995	14,952	355	1,025	3,945	7,769	267	1.538
<i>C. goeringii</i>	30,897	6,510	24,387	13,575	1,301	2,803	3,928	8,516	267	1.795
<i>D. catenatum</i>	26,791	5,345	21,446	13,689	676	2,904	3,945	6,818	267	1.567
<i>G. elata</i>	18,019	3,685	14,334	10,568	234	639	3,945	5,700	267	1.356
<i>M. acuminata</i>	34,241	8,513	25,728	12,557	476	1,220	3,945	10,915	267	2.049
<i>O. sativa</i>	42,189	12,061	30,128	16,569	1,257	4,773	3,945	8,136	267	1.818
<i>P. dactylifera</i>	23,890	5,926	17,964	10,901	359	1,073	3,945	7,341	267	1.648
<i>P. equestris</i>	26,471	6,679	19,792	13,489	629	2,140	3,945	6,544	267	1.467
<i>P. trichocarpa</i>	40,984	7,442	33,542	14,114	1,178	3,671	3,945	11,506	267	2.377
<i>S. bicolor</i>	27,160	3,477	23,683	15,356	289	759	3,945	7,932	267	1.542
<i>S. polyrhiza</i>	18,357	4,815	13,542	10,124	245	732	3,945	5,659	267	1.338
<i>V. vinifera</i>	25,328	5,853	19,475	12,602	597	1,745	3,945	7,124	267	1.545

Unclustered genes refer to the number of genes endemic to the species. Unique families refer to the gene family that are Unique to a species.