

Table S4. Selection pressure analysis of *Euphorbiaceae* and *Arabidopsis*

Genes of <i>Euphorbiaceae</i>	Genes of <i>Arabidopsis</i>	Ka	Ks	Ka/Ks	Note
<i>M. esculenta</i>					
<i>MeHsp20-4</i>	<i>AtHsp17.8</i>	0.14892	NaN	NaN	High Sequence Divergence Value (pS>=0.75)
<i>MeHsp20-4</i>	<i>AtHsp17.6B</i>	0.152372	NaN	NaN	High Sequence Divergence Value (pS>=0.75)
<i>MeHsp20-2</i>	<i>AtHsp15.7</i>	0.255098	4.848441	0.052614	
<i>MeHsp20-5</i>	<i>AtHsp17.8</i>	0.192772	NaN	NaN	High Sequence Divergence Value (pS>=0.75)
<i>MeHsp20-5</i>	<i>AtHsp17.6B</i>	0.180729	5.290189	0.034163	
<i>MeHsp20-11</i>	<i>AtHsp17.6</i>	0.278634	2.200505	0.126623	
<i>MeHsp20-12</i>	<i>AtHsp26.5</i>	0.345044	2.098699	0.164408	
<i>MeHsp20-17</i>	<i>AtHsp23.6</i>	0.25342	2.744167	0.092348	
<i>MeHsp20-17</i>	<i>AtHsp23.5</i>	0.3001	3.11446	0.096357	
<i>MeHsp20-20</i>	<i>AtHsp17.6B</i>	0.182124	2.265319	0.080396	
<i>MeHsp20-33</i>	<i>AtHsp17.4-CIII</i>	0.243292	NaN	NaN	High Sequence Divergence Value (pS>=0.75)
<i>E. peplus</i>					
<i>EpHsp20-7</i>	<i>AtHsp23.6</i>	0.28482	2.013616	0.141447	
<i>EpHsp20-7</i>	<i>AtHsp23.5</i>	0.303362	2.14217	0.141614	
<i>EpHsp20-9</i>	<i>AtHsp26.5</i>	0.372406	3.955604	0.094146	
<i>M. annua</i>					
<i>MaHsp20-10</i>	<i>AtHsp17.6</i>	0.267771	2.455023	0.109071	
<i>MaHsp20-14</i>	<i>AtHsp23.6</i>	0.381897	1.299905	0.293788	
<i>MaHsp20-14</i>	<i>AtHsp23.5</i>	0.426107	NaN	NaN	High Sequence Divergence Value (pS>=0.75)
<i>MaHsp20-19</i>	<i>AtHsp15.7</i>	0.246275	2.141765	0.114987	
<i>H. brasiliensis</i>					
<i>HbHsp20-13</i>	<i>AtHsp17.4-CIII</i>	0.252935	NaN	NaN	High Sequence Divergence Value (pS>=0.75)
<i>HbHsp20-20</i>	<i>AtHsp17.8</i>	0.176265	3.869291	0.045555	
<i>HbHsp20-20</i>	<i>AtHsp17.6B</i>	0.166533	2.76212	0.060292	
<i>HbHsp20-27</i>	<i>AtHsp25.3</i>	0.222796	NaN	NaN	High Sequence Divergence Value (pS>=0.75)
<i>HbHsp20-24</i>	<i>AtHsp15.7</i>	0.256585	2.272103	0.112928	
<i>HbHsp20-30</i>	<i>AtHsp23.6</i>	0.217183	4.024482	0.053966	
<i>HbHsp20-30</i>	<i>AtHsp23.5</i>	0.294789	NaN	NaN	High Sequence Divergence Value (pS>=0.75)
<i>HbHsp20-38</i>	<i>AtHsp17.8</i>	0.150121	2.729504	0.055	
<i>HbHsp20-38</i>	<i>AtHsp17.6B</i>	0.137295	NaN	NaN	High Sequence Divergence Value (pS>=0.75)
<i>J. curcas</i>					
<i>JcHsp20-21</i>	<i>AtHsp17.4-CIII</i>	0.245762	2.612488	0.094072	
<i>JcHsp20-15</i>	<i>AtHsp17.8</i>	0.153518	1.716147	0.089455	
<i>V. fordii</i>					
<i>VfHsp20-4</i>	<i>AtHsp17.4-CIII</i>	0.243037	NaN	NaN	High Sequence Divergence Value (pS>=0.75)
<i>VfHsp20-5</i>	<i>AtHsp15.7</i>	0.212787	NaN	NaN	High Sequence Divergence Value (pS>=0.75)
<i>VfHsp20-32</i>	<i>AtHsp26.5</i>	0.372121	2.163956	0.171963	
<i>VfHsp20-50</i>	<i>AtHsp17.6</i>	0.271212	1.779742	0.152389	
<i>VfHsp20-52</i>	<i>AtHsp15.4</i>	0.430124	1.455106	0.295596	
<i>VfHsp20-55</i>	<i>AtHsp14.7</i>	0.773056	NaN	NaN	High Sequence Divergence Value (pS>=0.75)