

Table S2 Ka/Ks of PbROP genes between ‘*Dull*’ and *Arabidopsis*

Gene in <i>P. betulifolia</i>	Gene in <i>A.thaliana</i>	Ka	Ks	Ka/Ks
<i>PbROP1</i>	<i>AtROP1</i>	0.022	1.79	0.012496287
<i>PbROP1</i>	<i>AtROP3</i>	0.015	2.24	0.007007816
<i>PbROP1</i>	<i>AtROP5</i>	0.022	1.95	0.011516357
<i>PbROP2</i>	<i>AtROP2</i>	0.060	NaN	NaN
<i>PbROP2</i>	<i>AtROP4</i>	0.052	NaN	NaN
<i>PbROP3</i>	<i>AtROP6</i>	0.041	1.38	0.03018674
<i>PbROP4</i>	<i>AtROP2</i>	0.066	1.83	0.036246344
<i>PbROP4</i>	<i>AtROP4</i>	0.059	1.97	0.030083471
<i>PbROP5</i>	<i>AtROP6</i>	0.039	1.18	0.033552258
<i>PbROP6</i>	<i>AtROP6</i>	0.039	1.22	0.032575434
<i>PbROP7</i>	<i>AtROP9</i>	0.054	2.26	0.024046326
<i>PbROP8</i>	<i>AtROP8</i>	0.160	1.41	0.114372345
<i>PbROP9</i>	<i>AtROP9</i>	0.046	1.86	0.024932052
<i>PbROP10</i>	<i>AtROP10</i>	0.088	1.59	0.055382419
<i>PbROP10</i>	<i>AtROP11</i>	0.104	1.71	0.060822966
<i>PbROP11</i>	<i>AtROP10</i>	0.092	2.42	0.038045921
<i>PbROP11</i>	<i>AtROP11</i>	0.114	1.74	0.065533569
<i>PbROP12</i>	<i>AtROP8</i>	0.163	1.64	0.099379527