

Table S1. Protein identities in bHLH domains among *Arabidopsis*, rice and maize bHLHs

Gene	<i>AtFAMA</i>	<i>OsFAMA</i>	<i>ZmFAMA</i>	<i>AtMUTE</i>	<i>OsMUTE</i>	<i>ZmMUTE</i>	<i>AtSPCH</i>	<i>OsSPCH1</i>	<i>ZmSPCH1</i>	<i>OsSPCH2</i>	<i>ZmSPCH2</i>
<i>AtFAMA</i>	ID	0.94	0.92	0.75	0.75	0.81	0.75	0.73	0.71	0.75	0.75
<i>OsFAMA</i>	–	ID	0.98	0.77	0.77	0.83	0.73	0.73	0.69	0.73	0.73
<i>ZmFAMA</i>	–	–	ID	0.77	0.75	0.81	0.71	0.71	0.67	0.71	0.71
<i>AtMUTE</i>	–	–	–	ID	0.90	0.92	0.79	0.77	0.77	0.81	0.81
<i>OsMUTE</i>	–	–	–	–	ID	0.92	0.73	0.75	0.75	0.79	0.79
<i>ZmMUTE</i>	–	–	–	–	–	ID	0.75	0.73	0.73	0.77	0.77
<i>AtSPCH</i>	–	–	–	–	–	–	ID	0.83	0.88	0.92	0.92
<i>OsSPCH1</i>	–	–	–	–	–	–	–	ID	0.92	0.92	0.92
<i>ZmSPCH1</i>	–	–	–	–	–	–	–	–	ID	0.96	0.96
<i>OsSPCH2</i>	–	–	–	–	–	–	–	–	–	ID	1
<i>ZmSPCH2</i>	–	–	–	–	–	–	–	–	–	–	ID

ID, identical.

Table S2. Overall protein identities among *Arabidopsis*, rice and maize stomatal bHLHs

Gene	<i>AtFAMA</i>	<i>OsFAMA</i>	<i>ZmFAMA</i>	<i>AtMUTE</i>	<i>OsMUTE</i>	<i>ZmMUTE</i>	<i>AtSPCH</i>	<i>OsSPCH1</i>	<i>ZmSPCH1</i>	<i>OsSPCH2</i>	<i>ZmSPCH2</i>
<i>AtFAMA</i>	ID	0.27	0.33	0.37	0.34	0.39	0.19	0.17	0.19	0.19	0.22
<i>OsFAMA</i>	–	ID	0.56	0.16	0.18	0.17	0.16	0.17	0.16	0.18	0.18
<i>ZmFAMA</i>	–	–	ID	0.19	0.19	0.19	0.17	0.19	0.20	0.18	0.19
<i>AtMUTE</i>	–	–	–	ID	0.49	0.55	0.21	0.17	0.20	0.20	0.24
<i>OsMUTE</i>	–	–	–	–	ID	0.61	0.20	0.19	0.23	0.23	0.26
<i>ZmMUTE</i>	–	–	–	–	–	ID	0.22	0.19	0.22	0.22	0.25
<i>AtSPCH</i>	–	–	–	–	–	–	ID	0.23	0.28	0.28	0.30
<i>OsSPCH1</i>	–	–	–	–	–	–	–	ID	0.48	0.37	0.35
<i>ZmSPCH1</i>	–	–	–	–	–	–	–	–	ID	0.44	0.43
<i>OsSPCH2</i>	–	–	–	–	–	–	–	–	–	ID	0.60
<i>ZmSPCH2</i>	–	–	–	–	–	–	–	–	–	–	ID

ID, identical.