

AtbHLH030	AQEIMDAKALA-A-SKSH	SEA-E	RRR	RER	--	IN-NH-LAKLR	S-ILP	WT-TR-TD	KAS-LL-AEVIQHWKELKROTSVISETNVYVSDR
AtbHLH043	DCVGGIEKAES-L-SRSH	SLA-E	RER	RER	--	SH-LTALR	K-LVP	NS-DK-LD	KAA-LL-ATWIGQWELKQKAASPIQDFLPEA
AtbHLH106	GETMAODRALA-A-LRHH	KEA-E	RRR	RER	--	SH-LNKLR	N-VLS	CN-SK-TD	KAT-LL-AKVUVRELKQQLTESDSDTFLPS
AtbHLH032	AQEIMDAKALA-A-SKSH	SEA-E	RRR	RER	--	IN-TH-LAKLR	S-ILP	NT-TK-TD	KAS-LL-AEVIQHWKELKROTSVISETNVYVSDR
SmbHLH046	SAQADNAKALA-A-SKSH	SEA-E	RRR	RER	--	IN-KH-LSTR	T-LIP	NT-AK-TD	KAS-LL-AEVIQHWKELKROTSVISETNVYVSDR
SmbHLH049	SAQADNAKALA-A-SKSH	SEA-E	RRR	RER	--	IN-KH-LSTR	T-LIP	NT-AK-TD	KAS-LL-AEVIQHWKELKROTSVISETNVYVSDR
SmbHLH056	FCBTDIADAKALA-A-SKSH	SEA-E	RRR	RER	--	IN-NH-LAKLR	C-LIP	ST-TK-TD	KAS-LL-AEVIQHWKELKROTSVISETNVYVSDR
SmbHLH063	SGSRSAQAQT-A-MTH	SEA-E	RRR	RER	--	IN-NH-LAKLR	C-LIP	ST-TK-TD	KAS-LL-AEVIQHWKELKROTSVISETNVYVSDR
AtbHLH036	SGSRSAQAQT-A-MTH	SEA-E	RRR	RER	--	IN-AH-LAKLR	R-LIP	DK-KO-MD	KAT-LL-ASVUNQWELKQKTRATETPTAATIP
AtbHLH107	FATVYEDKALA-S-LRHH	KEA-E	RKR	RAR	--	SH-LNKLR	K-LLS	CN-SK-TD	KST-LL-AKVUVRELKQQLTESDSDTFLPS
OsblHLH040	AQEIMDAKALA-A-SKSH	SEA-E	RRR	RER	--	IN-AH-LAKLR	S-ILP	NT-TK-TD	KAS-LL-AEVIQHWKELKROTSVISETNVYVSDR
OsblHLH041	AAAAADRALA-A-SRHH	REA-E	RKR	RER	--	IK-SH-LDRLR	A-VLA	CD-PR-ID	KAS-LL-AKAVRVDLKRQMAIGEAAPALFP
OsblHLH035	SGSGATEAR-A-LKTH	SEA-E	RRR	RER	--	IN-AH-LAKLR	R-MIP	DT-KO-MD	KAT-LL-ARVUDQWELKQKASITORTPTLPEE
OsblHLH038	AKEMADAKALA-A-SRSH	SEA-E	RRR	RER	--	IN-GH-LAKLR	S-LIP	NT-TK-TD	KAS-LL-AEVIQHWKELKROTSVISETNVYVSDR
OsblHLH042	SAAVRKGGSF-A-VRSH	SEA-E	RRR	RER	--	IN-AH-LAKLR	T-LVP	SA-SR-MD	KAA-LL-GEVUVRELKQKADATETADVDFG
OsblHLH037	CGGSEKKAAM-A-LKSH	SEA-E	RRR	RER	--	IN-AH-LAKLR	T-MVP	DT-DR-MD	KAA-LL-AEVVHWKELKQSAARVRRATVPSA
OsblHLH039	AREIMADAKALA-A-SRSH	SEA-E	RRR	RER	--	IN-GH-LAKLR	S-LIP	NT-TK-TD	KAS-LL-AEVIQHWKELKROTSVISETNVYVSDR
PfblHLH027	ASSRPRKRNVRIS-KDPO	SVA-A	RUR	RER	--	IS-DR-IRVLQ	R-LVP	GG-TK-MD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
PfblHLH074	EGRSYNGKVPATS-VEPO	SVA-A	RUR	RER	--	IS-ER-IRVLE	K-LIP	GG-NK-MD	TAT-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
AtbHLH088	AVRPFKRNVRIS-KDPO	SVA-A	RUR	RER	--	IS-ER-IRVLE	R-LVP	GG-TK-MD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
AtbHLH122	AVRPFKRNVRIS-SDPO	SVA-A	RUR	RER	--	IS-DR-IRVLQ	R-LVP	GG-NK-MD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
AtbHLH140	GNTKRSSTSTLS-SDPO	SVA-A	RDR	RUR	--	IS-DR-FKILQ	S-MVP	GG-AK-MD	TVS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
AtbHLH117	AGERFRNVRIS-SDPO	SVA-A	ROR	RER	--	IS-ER-IRVLE	K-LVP	GG-AK-MD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
OsblHLH121	TVRPFKRNVRIS-SDPO	SVA-A	RMR	RER	--	IS-ER-IRVLE	R-LVP	GG-TK-MD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
AtbHLH037	SVKPFKRNVRIS-KDPO	SVA-A	RUR	RER	--	IS-ER-IRVLE	R-LVP	GG-TK-MD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
OsblHLH123	RGGRRRPGAKLS-SDPO	SVA-A	RER	RHR	--	IS-DR-FRVLQ	S-LVP	GG-NK-MD	TVS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
PfblHLH081	EGRLCCKPATS-VEPO	SVA-A	RUR	RER	--	IS-ER-IRVLE	K-LIP	GG-NK-MD	TAT-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
OsblHLH119	AVRPFKRNVRIS-SDPO	SVA-A	RUR	RER	--	IS-ER-IRVLE	R-LVP	GG-TK-MD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
PfblHLH035	VQLRFRNVRIS-KDPO	SVA-A	RUR	RER	--	IS-DR-VRVLQ	R-FVP	GG-TK-MD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
AtbHLH040	TVRPFKRNVRIS-SDPO	SVA-A	RMR	RER	--	IS-EK-IRILK	GG-AK-MD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP	
AtbHLH052	WTEQDTRKRELS--AQ	SIA-A	RKR	RRR	--	IK-EK-TQELG	K-LIP	GG-OR-IN	TAF-ML-NAAKRVFKLQVQLLEQIQQNGGDP
AtbHLH053	RQDDSDSKFTLS--SQ	SIA-A	RKR	RRR	--	IA-EK-THELQ	GG-NK-LN	TAF-ML-NAAKRVFKLQVQLLEQIQQNGGDP	
OsblHLH178	DDHDDRHRRHHH--QAVQ	SAA-A	RER	RRR	--	IS-SK-TAELS	R-LIP	GA-AR-MNS	TAF-ML-QAARVRLQVQLLEQIQQNGGDP
AtbHLH110	AVRPFKRNVRIS-KDPO	SVA-A	RUR	RER	--	IS-ER-IRVLE	R-LVP	GG-TK-MD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
AtbHLH124	VIKFRNVRIS-SDPO	SVA-A	RUR	RER	--	IS-ER-IRVLE	R-LVP	GG-TK-MD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
PfblHLH096	ASSRPRKRNVRIS-IDPO	SVA-A	RUR	RER	--	IS-DR-IRVLQ	R-LVP	GG-TK-MD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
AtbHLH043	TVRPFKRNVRIS-SDPO	SVA-A	RUR	RER	--	IS-ER-IRVLE	R-LVP	GG-TK-MD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
PfblHLH045	AVRPFKRNVRIS-SDPO	SVA-A	RUR	RER	--	IS-DR-VRVLQ	R-FVP	GG-TK-MD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
PfblHLH069	ASSRPRKRNVRIS-KDPO	SVA-A	RUR	RER	--	IS-DR-IRVLQ	R-LVP	GG-TK-MD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
PfblHLH026	AVRPFKRNVRIS-KDPO	SVA-A	RUR	RER	--	IS-DR-VRVLQ	R-FVP	GG-TK-MD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
OsblHLH086	EDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-SKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH087	LYVVIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-EK-IRVLQ	T-LVP	GG-TK-MD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
SmbHLH044	GGHGSFYSYFKEIT-VEPO	SIA-A	ROR	RKK	--	IS-ER-VRELE	K-LVP	GG-NK-LD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
SmbHLH051	GGHGSFYSYFKEIT-VEPO	SIA-A	ROR	RKK	--	IS-ER-VRELE	K-LVP	GG-NK-LD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
SmbHLH071	GGHGSFYSYFKEIT-VEPO	SIA-A	ROR	RKK	--	IS-ER-VRELE	K-LVP	GG-NK-LD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
SmbHLH074	GGHGSFYSYFKEIT-VEPO	SIA-A	ROR	RKK	--	IS-ER-VRELE	K-LVP	GG-NK-LD	TAS-ML-DEAIHYVFKLQVQLLEQIQQNGGDP
AtbHLH117	NSSTSSSTSGSP-TASH	MMK-E	RKR	RRR	--	IK-DR-ITELQ	K-LIP	GG-RE-MD	LAM-VL-DEAIHYVFKLQVQLLEQIQQNGGDP
AtbHLH109	DEEYRMAKRAKRA--RSH	MMK-E	RKR	RRR	--	IK-DR-ITELQ	K-LIP	GG-RE-MD	LAM-VL-DEAIHYVFKLQVQLLEQIQQNGGDP
AtbHLH108	KRRVTCQVKSDD-KSDHD	TLL-K	RKR	RER	--	IR-RQ-LTELK	GG-TP-MD	INQ-ED-MD	INA-LL-DCVIEYNNLRALHYKSGQICDDWRL
OsblHLH176	FFSILAFADATA-AVFN	LQV--	R	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKVFQ	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH074	ENYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	CC-NKITG	CC-YKMG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH044	REVVIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IN-ER-LKCLQ	D-MVP	CC-YKMG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
PfblHLH065	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-SKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
OsblHLH066	EDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-SKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH075	KDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IN-ER-LKCLQ	D-LVP	CC-YKMG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH076	DGYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-DKVTG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH078	KDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH031	KDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
OsblHLH095	KDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH079	KDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-EK-MTFLQ	D-LIP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
OsblHLH081	KDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH049	DCYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH050	REVVIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IN-ER-LKCLQ	D-LVP	CC-YKMG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH064	LDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-KK-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH048	LYVVIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IN-AR-MKFLQ	E-LVP	CC-DKITG	TAL-VL-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH062	KDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
OsblHLH079	TDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH071	KDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH060	LYVVIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IN-AR-MKFLQ	E-LVP	CC-DKITG	TAL-VL-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH137	TDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	N-LVP	CC-DKITG	KAL-ML-DEIHYVQSLQVQLLEQIQQNGGDP
OsblHLH080	KDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	A-LVP	CC-DKITG	KAL-ML-DEIHYVQSLQVQLLEQIQQNGGDP
PfblHLH051	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-SKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH063	TDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-DKITG	KAL-ML-DEIHYVQSLQVQLLEQIQQNGGDP
AtbHLH059	FDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
PfblHLH076	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
OsblHLH084	EDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-SKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
OsblHLH094	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
PfblHLH073	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-SKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
OsblHLH090	KDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-OR-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
PfblHLH007	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-NR-MKFLQ	A-LVP	CC-SKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
PfblHLH077	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-OR-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
OsblHLH091	KDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-OR-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
OsblHLH085	EDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-SKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
OsblHLH088	EDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IN-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
OsblHLH089	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
PfblHLH070	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-SKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
PfblHLH072	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
PfblHLH074	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
OsblHLH081	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	A-LVP	CC-DKITG	KAL-ML-DEIHYVQSLQVQLLEQIQQNGGDP
PfblHLH088	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-NR-MKFLQ	A-LVP	CC-SKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
OsblHLH083	AGYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	S-LVP	CC-DKITG	KAL-ML-DEIHYVQSLQVQLLEQIQQNGGDP
PfblHLH001	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-SKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
OsblHLH092	KDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-OR-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
PfblHLH068	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
PfblHLH017	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
OsblHLH093	KDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
SmbHLH010	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-SKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
SmbHLH023	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-SKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
SmbHLH028	KDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
SmbHLH039	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-SKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
SmbHLH045	QDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-SKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
SmbHLH093	KDYIHYVARRGQA-TDGH	SLA-E	RVR	REK	--	IS-ER-MKFLQ	D-LVP	CC-NKITG	KAV-ML-DEIHYVQSLQVQLLEQIQQNGGDP
OsblHLH139	KGSSPDSTCSSS-VGGG	QAR-P	GRK	KER	--	MM-KM-VRTLK	GG-IP-MD	GG-NQ-MD	TFA-VL-DEAVRVLKELKQVVKLGVKSGDND
AtbHLH148	VSSSSNRSRK-R-RVSV	LRL-N	KKS	IPD	--	VM-KR-VRVLQ	R-LVP	GG-GR-QS	VFV-VL-DEATDYQLKELKQVVKLGVKSGDND
AtbHLH145	CGSDNTRISF-L-KRKK	LSS-N	KIG	EKK	--	IF-ET-VSLTR	S-MVP	GG-EL-VD	PIL-VL-DEAVRVLKELKQVVKLGVKSGDND
AtbHLH144	NNNSNRKQ-SLSS-GASS	SNN-D	GKC	RKK	--	MM-KM-MVTRK	C-LIP	GG-GR-MD	TFC-VL-DEAVRVLKELKQVVKLGVKSGDND
OsblHLH150	CGSSRSDCGGR-RRR	RER-E	RKR	RER	--	MM-KM-MVTRK	S-LVP	GG-DR-MD	TFC-VL-DEAVRVLKELKQVVKLGVKSGDND
SmbHLH024	SYNSNRKQ-RSLV-VRRR	KEM-K	KOR	KER	--	IR-TQ-VKALQ	S-MVP	GG-DS-MD	PAT-VL-DEAILYKQVVKLGVKSGDND
SmbHLH029	SYNSNRKQ-RSLV-VRRR	KEM-K	KOR	KER	--	IR-TQ-VKALQ	S-MVP	GG-DS-MD	PAT-VL-DEAILYKQVVKLGVKSGDND
SmbHLH054	GRSSRSDCGRLS-VRST	RSS-K	KSR	ROT	--	IK-YK-IQVLR	N-LIP	GG-AG-ME	AAS-VL-DEIRYVTSLESMILQFKAMKSGPRP
SmbHLH079	GRSSRSDCGRLS-VRST	RSS-K	KSR	ROT	--	IK-YK-IQVLR	N-LIP	GG-AG-ME	AAS-VL-DEIRYVTSLESMILQFKAMKSGPRP
AtbHLH147	TLLTGSIRSKKQ-RATV	LRL-K	AKG	LPA	--	VQ-RK-VRVLQ	GG-RR-QS	GG-RKQS	LPV-VL-DEITDYAEMEMQIRMTALSASSSS

SmbHLH022 SRCQGLRKRIMQ-SQQQ---RRS-S---RDD-EQT---IQ--SR-VKALQ---G-LVP-----GSV-LL-GEAADYMMFLRFQFPAAGYFRTRAKR
OsbHLH134 GNGKVFARRRRA-TIAQ---SLV-A---RRR-RER---IN-GR-LRILQ---K-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
OsbHLH130 TSKGSRARAGAA-TDPO---SLV-A---RRR-RER---IN-GR-LRILQ---N-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
OsbHLH129 HGGAKARRAGAA-TDPO---SLV-A---RRR-RER---IN-GR-LRILQ---N-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
AtbHLH084 SLKRRKANRGA-TDPO---SLV-A---RRR-RER---IN-GR-LRILQ---S-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
AtbHLH139 NTLNFKPRAGGA-TDPO---SLV-A---RRR-RER---IN-GR-LRILQ---S-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
PpbHLH034 PAFKORRRHGA-TDPO---SIA-A---RTR-REK---FT-DR-IRILQ---S-LVP-----NG-ER-LD-----1TV-M-SQTFEYVRFQHKWLDVNNKDSISEV
PpbHLH050 PAFKORRRHGA-TDPO---SIA-A---RTR-REK---FT-DR-IRILQ---G-LVP-----NG-ER-LD-----1TV-M-SQTFEYVRFQHKWLDVNNKDSISEV
OsbHLH131 KSNCAQSGHRSR-TDPO---SLV-A---RRR-RER---IN-GR-LRILQ---N-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
AtbHLH086 TNGIKPKRATTS-RDPO---SLV-A---RIR-REK---IS-ER-LKVLQ---E-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
AtbHLH083 VTKRKPFRATTS-RDPO---SLV-A---RIR-REK---IS-ER-LKVLQ---E-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
OsbHLH127 ELKRRKRRRGA-TDPO---SLV-A---RRR-RER---IN-GR-LRILQ---E-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
AtbHLH054 SVKCKRATKGA-TDPO---SLV-A---RRR-RER---IN-GR-LRILQ---E-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
PpbHLH043 NTLNFKPRAGGA-TDPO---SIA-A---RVR-REK---IS-ER-LKVLQ---A-LIP-----NG-DK-VD-----1MT-M-EKAIHYVFKLEFQIKMLKNSLWPKAL
PpbHLH063 NTLNFKPRAGGA-TDPO---SVV-A---RIR-REK---IS-ER-LKVLQ---G-LVP-----NG-EQ-VD-----1VT-M-EEAVHYVFKLEFQIKMLKNSLWPKAL
PpbHLH095 NTLNFKPRAGGA-TDPO---SVV-A---RIR-REK---IS-ER-LKVLQ---N-LVP-----NG-AK-VD-----1VT-M-DEAIHYVFKLQVLELLKSDPWFAN
OsbHLH126 KAGAKASAPTTT-RDPO---SLV-A---RIR-REK---IS-ER-LKVLQ---E-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
OsbHLH132 KGSIDRRKQCS-RDPO---SLV-A---RIR-REK---IS-ER-LKVLQ---Q-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
AtbHLH084 NTLNFKPRAGGA-TDPO---SLV-A---RRR-RER---IN-GR-LRILQ---E-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
OsbHLH128 SKMCRANRGA-TDPO---SLV-A---RRR-RER---IN-GR-LRILQ---N-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
PpbHLH083 NTLNFKPRAGGA-TDPO---SVH-A---RVR-REK---IA-ER-LKVLQ---H-LIP-----NG-GK-VD-----1VT-M-DEAVHYVFKLQIKVEVQVCHDQML
OsbHLH125 PPSPPSPSPSPNK-DQPO---SAA-A---RVR-REK---IS-ER-LKVLQ---D-LVP-----NG-TK-VD-----1VT-M-EKAIHYVFKLQIKVEVQVCHDQML
PpbHLH028 NTLNFKPRAGGA-TDPO---SVV-A---RIR-REK---IN-GR-LRILQ---H-LIP-----NG-AK-VD-----1VT-M-DEAIHYVFKLQIKVEVQVCHDQML
OsbHLH133 MVSVKCKRSVSA-ESQO---SVV-A---RIR-REK---IN-GR-LRILQ---E-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
PpbHLH027 NTLNFKPRAGGA-TDPO---SIA-A---RIR-REK---IS-ER-LKVLQ---E-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
SmbHLH003 NTLNFKPRAGGA-TDPO---SIA-A---RIR-REK---IS-DR-LKVLQ---E-LVP-----NS-TK-VD-----1VT-M-EKAIHYVFKLQIKVEVQVCHDQML
SmbHLH004 NTLNFKPRAGGA-TDPO---SIA-A---RIR-REK---IS-DR-LKVLQ---E-LVP-----NS-TK-VD-----1VT-M-EKAIHYVFKLQIKVEVQVCHDQML
SmbHLH005 NTLNFKPRAGGA-TDPO---SIA-A---RIR-REK---IS-DR-LKVLQ---E-LIP-----NG-SK-VD-----1VT-M-EKAIHYVFKLQIKVEVQVCHDQML
SmbHLH006 NTLNFKPRAGGA-TDPO---SIA-A---RIR-REK---IS-DR-LKVLQ---E-LIP-----NG-SK-VD-----1VT-M-EKAIHYVFKLQIKVEVQVCHDQML
SmbHLH018 NTLNFKPRAGGA-TDPO---SVV-A---RIR-REK---IN-GR-LRILQ---H-LIP-----NG-AK-VD-----1VT-M-EEAVHYVFKLQIKVEVQVCHDQML
SmbHLH042 NTLNFKPRAGGA-TDPO---SIA-A---RIR-REK---IN-GR-LRILQ---E-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
SmbHLH019 NTLNFKPRAGGA-TDPO---SIA-A---RIR-REK---IN-GR-LRILQ---E-LVP-----NG-TK-VD-----1ST-M-EEAVHYVFKLQIKVEVQVCHDQML
SmbHLH103 NTLNFKPRAGGA-TDPO---SIA-A---RIR-REK---IS-DR-LKVLQ---D-LVP-----NG-SK-VD-----1VT-M-EKAIHYVFKLQIKVEVQVCHDQML
AtbHLH066 QSRTKRARRGA-TDPO---SIA-E---RIR-REK---IA-ER-MKALQ---E-LVP-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
OsbHLH097 APKPRVARRGA-TDPO---SIA-E---RIR-REK---IS-DR-MKALQ---E-LVP-----NS-NK-TD-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
AtbHLH059 SIRPRVARRGA-TDPO---SIA-E---RIR-REK---IA-ER-IRALQ---E-LVP-----RAA-M-DEIHYVFKLQIKVEVQVCHDQML
AtbHLH069 QPKPRVARRGA-TDPO---SIA-E---RIR-REK---IA-ER-MKALQ---E-LVP-----NS-NK-TD-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
OsbHLH096 NAKPRVARRGA-TDPO---SIA-E---RIR-REK---IS-DR-MKALQ---E-LVP-----NS-NK-TD-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
PpbHLH012 GARPVARRGA-TDPO---SIA-E---RIR-REK---IA-ER-MKALQ---E-LVP-----NS-NK-TD-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
OsbHLH100 PRQPRVARRGA-TDPO---SIA-E---RIR-REK---IA-ER-MKALQ---E-LVP-----NA-NK-LMOTD-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
OsbHLH098 APRPRVARRGA-TDPO---SIA-E---RIR-REK---IA-ER-MKALQ---E-LVP-----NT-NK-TD-----RAA-M-DEIHYVFKLQIKVEVQVCHDQML
PpbHLH013 GARPVARRGA-TDPO---SIA-E---RIR-REK---IA-ER-MKALQ---E-LVP-----NS-NK-TD-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
OsbHLH114 VHSPTTTPSPSP-FFIA---SMP-C---CLR-REK---IA-ER-MKALQ---E-LVP-----NA-NK-TD-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
OsbHLH112 VYARRRGA-TDPO---SIA-E---RIR-REK---IA-ER-MKALQ---E-LVP-----NA-NK-TD-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
SmbHLH002 VYARRRGA-TDPO---SIA-E---RIR-REK---IA-ER-MKALQ---E-LVP-----NA-NK-TD-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
SmbHLH057 AARPRVARRGA-TDPO---SIA-E---RIR-REK---IA-ER-MKALQ---E-LVP-----NS-NK-TD-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
SmbHLH058 RFRVARRRGA-TDPO---SIA-E---RIR-REK---IA-ER-MKALQ---D-LVP-----NA-NK-TD-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
SmbHLH068 AARPRVARRGA-TDPO---SIA-E---RIR-REK---IA-ER-MKALQ---E-LVP-----NS-NK-TD-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
SmbHLH076 SARPRVARRGA-TDPO---SIA-E---RIR-REK---IA-ER-MKALQ---E-LVP-----NA-NK-TD-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
SmbHLH085 RFRVARRRGA-TDPO---SIA-E---RIR-REK---IA-ER-MKALQ---D-LVP-----NA-NK-TD-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
OsbHLH099 TIRPRVARRGA-TDPO---SIA-E---RIR-REK---IA-ER-IRALQ---E-LVP-----RAA-M-DEIHYVFKLQIKVEVQVCHDQML
AtbHLH007 TIRPRVARRGA-TDPO---SIA-E---RIR-REK---IA-ER-IRALQ---E-LVP-----RAA-M-DEIHYVFKLQIKVEVQVCHDQML
PpbHLH015 MRARAKRGA-TDPO---SIA-E---RIR-REK---IA-ER-IRALQ---D-LVP-----NM-EKTNT-----TSD-M-DEIHYVFKLQIKVEVQVCHDQML
AtbHLH080 SVPCRRARRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---E-LVP-----NM-DKQTN-----TAD-M-DEIHYVFKLQIKVEVQVCHDQML
OsbHLH111 QVPRVARRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---A-LVP-----NM-DKQTS-----TSD-M-DEIHYVFKLQIKVEVQVCHDQML
OsbHLH110 QVPRVARRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---E-LVP-----NM-DKQTS-----TAD-M-DEIHYVFKLQIKVEVQVCHDQML
OsbHLH124 VYARRRGA-TDPO---SIA-E---RIR-REK---IA-ER-MKALQ---E-LVP-----NA-NK-TD-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
OsbHLH109 SVACRRARRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---D-LVP-----NM-DKQTN-----TSD-M-DEIHYVFKLQIKVEVQVCHDQML
PpbHLH006 YSPCKRARRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---E-LVP-----NM-DKQTN-----TAD-M-DEIHYVFKLQIKVEVQVCHDQML
AtbHLH081 SVAFRRARRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---E-LVP-----NM-DKQTN-----TAD-M-DEIHYVFKLQIKVEVQVCHDQML
AtbHLH130 SVPCRRARRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---E-LVP-----NM-DKQTN-----TAD-M-DEIHYVFKLQIKVEVQVCHDQML
PpbHLH094 VYLRTRARRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---E-LVP-----NS-DKQTN-----TAD-M-DEIHYVFKLQIKVEVQVCHDQML
AtbHLH128 SVPCRRARRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---E-LVP-----NM-DKQTS-----TAD-M-DEIHYVFKLQIKVEVQVCHDQML
AtbHLH124 VYARRRGA-TDPO---SIA-E---RIR-REK---IA-ER-MKALQ---E-LVP-----NA-NK-TD-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
PpbHLH075 VQBARAKRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---D-LVP-----NM-EKTNT-----TAD-M-DEIHYVFKLQIKVEVQVCHDQML
PpbHLH047 TVVMTRARRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---E-LVP-----SM-DKQTN-----TSD-M-DEIHYVFKLQIKVEVQVCHDQML
AtbHLH122 SIPCKRARRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---D-LVP-----NM-DKQTN-----TAD-M-DEIHYVFKLQIKVEVQVCHDQML
PpbHLH016 VYLRTRARRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---E-LVP-----SM-DKQTN-----TAD-M-DEIHYVFKLQIKVEVQVCHDQML
OsbHLH143 AVPCRRARRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---E-LVP-----NM-EKTNT-----TAD-M-DEIHYVFKLQIKVEVQVCHDQML
PpbHLH008 AVPCRRARRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---D-LVP-----NM-DKQTN-----TSD-M-DEIHYVFKLQIKVEVQVCHDQML
SmbHLH009 VYARRRGA-TDPO---SIA-E---RIR-REK---IA-ER-MKALQ---E-LVP-----NA-NK-TD-----KAS-M-DEIHYVFKLQIKVEVQVCHDQML
SmbHLH033 SVPCRRARRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---D-LVP-----NM-DKQTN-----TAD-M-DEIHYVFKLQIKVEVQVCHDQML
SmbHLH059 SVPCRRARRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---E-LVP-----NM-DKQTN-----TAD-M-DEIHYVFKLQIKVEVQVCHDQML
SmbHLH091 SVPCRRARRGA-TDPO---SIA-E---RIR-REK---IS-DR-IRLQ---D-LVP-----NM-DKQTN-----TAD-M-DEIHYVFKLQIKVEVQVCHDQML
OsbHLH175 MS-RR-SRRA---SIA-A---RIR-REK---IS-DR-IRLQ---A-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH134 MSRRSR-SRQA---SIS-S---RIS-EDQ---IN-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH174 MSRRSR-SRQA---SIS-S---RIS-EDQ---IN-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH173 MSRRSR-SRQA---SIS-S---RIS-EDQ---IN-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH161 MSRRSR-SRQA---SIS-S---RIS-EDQ---IN-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH155 MSRRSR-SRQA---SIS-S---RIS-EDQ---IN-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH154 MSRRSR-SRQA---SIS-S---RIS-EDQ---IN-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH136 NRKPKKRNQO-KSS---VCI-A---RIR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH069 LQAMQPKPS-CS-NAN---TLL-A---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
SmbHLH013 EM---EMO-M---CVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
SmbHLH014 EM---EMO-M---CVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
SmbHLH064 EM---EMO-M---CVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
SmbHLH067 EM---EMO-M---CVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH074 ATGSAKKR-VO-ASSA---QST-L---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH073 ATGSAKKR-VO-ASSA---QST-L---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH075 RGGKAKKFK-SE-T-SHST---SPK-H---QSP-KVR---LG-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH077 GSDGKPKK-HE-ATS-PTS---SLR-S---QVP-KVR---LG-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH071 ALPPSKPKR-LE-SHSSM---LPS-F---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH153 LGBSSKPKR-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH065 TFSKPKR-LE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH070 LIPNLGMVIL-D-FL---PIK-F---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH076 RQESTYKSK-GE-ASK---ASPP-KQV-FKVK---LG-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH123 DQPAKAKR-SE-AASP---SPA-F---K-R---KEK---LG-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH114 YSPRLKPKR-LE-TLSP---LPS-F---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH103 ESSQPKPKR-LE-TFPH---FPS-F---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH068 KKEAFKPKR-LE-TFPH---LPT-F---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH068 TGSKPKR-LE-TFPH---LPT-F---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH110 AGNSAKR-VE-SRSS---CPP-F---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH072 ASGAAPKARTQO-PSA---QAT-V---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH078 HGVCKR-VO-ASSA---QST-L---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH066 GCDORRATAPAA-ATT---NKR-F---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH067 SPAAKR-VE-SRSS---CPP-F---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH154 EDNKKR-VE-SRSS---CPP-F---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH112 ATGSAKKR-VO-ASSA---QST-L---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
SmbHLH027 MRSEKTPHRTQO-REH---TLL-E---ROR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
SmbHLH038 GSEKTPHRTQO-REH---TLL-E---ROR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
SmbHLH065 MRSEKTPHRTQO-REH---TLL-E---ROR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
SmbHLH080 GSEKTPHRTQO-REH---TLL-E---ROR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
PpbHLH060 YATERSPHRTQO-REH---TLL-E---ROR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
PpbHLH024 TFSKPKR-LE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
PpbHLH038 GVSQVSR-VE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
PpbHLH093 AEPKSR-VE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
PpbHLH059 VELSKEAR-VE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
PpbHLH061 KDQVVKR-VE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
PpbHLH064 TMDVVKR-VE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
PpbHLH036 NTRKTR-VE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
PpbHLH052 TFSKPKR-LE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
PpbHLH049 EKQVSKR-VE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
PpbHLH040 GPKTSR-VE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
PpbHLH090 ANIRKTR-VE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
PpbHLH091 EORMSK-VE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH055 MSH---MSH---RIR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH092 RSKKPKR-VE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH098 RSKKPKR-VE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH096 RSKKPKR-VE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH046 RSKKPKR-VE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH045 RSKKPKR-VE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH067 RSKKPKR-VE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
AtbHLH070 RSKKPKR-VE-SD---L---SFS-S---KVR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA
OsbHLH053 LAAVGDDGAA-RMSH---TVV-E---ROR-REK---IS-DR-IRLQ---Q-LIP-----E-ARLRN-DR-VF---SAR-VL-ETCSYIRSLREVDLSEKALLEAA


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Hs_Emc      SVAISRCAGGAGA-RLPA-----LLD-E-----QQVNVLLYD---MN--GC--YSRLK-----E-LVP-----TLP-----QN-RK-VS-----KVE-IL-QHVYDIYIRDLQLELNSESEVGTTPGGRG
Hs_H/E      TTPDKPKTASEHR-KSSK-----PIM-E-----KRR--RAR---IN--ES--LSQLK-----T-LIL-----DALKKDS--RH-SK-LE-----KAD-IL-EMTVKHLRNLQRAQMTAALSTDPVSLG
Hs_Max      DEEQPRFQSAADR-KAHH-----NAL-E-----KRR--RDH---IK--DS--FHSRLK-----D-SVP-----SL-----QC-EK-AS-----RAQ-IL-DMATEYIQVMRRKNHTHQDIDDLKRG
Hs_MyoD     CRVCKRRKVSVDNR-RRAA-----TLR-E-----KRR--LKK---VN--EA--FEALK-----R-SVL-----LN-----PN-QR-LP-----KVE-IL-RSAIQYIERLQALLSLNQEBERDLRYR
Sc_INO4     RSKRIKIKLTDGQI-RIHG-----VSS-E-----KRR--REL---ER--AI--FOELV-----A-WVF-----DLQ-----PQ-ES-RS-----ELI-TY-LKSLYLKSLYERNEKLGKILAKIEA
Sc_RTG1     -MSSIPAGTDPCS-QCAN-----FKH-D-----BKR--BDK---IN--DR--IQEEL-----S-IIP-----KDFFRDYVYQNSGSDTLSESTPPALGLSSKAKGTCT--KD-CK-FN-----KCG-IL-TOAVEYISHLQNVQDQNRREVEBLMWK
Sc_RTG3     LGGLTSDKLRKK-RFHH-----NAV-E-----RRR--REL---IK--CK--IKELG-----Q-LVP-----PGLLNVDLGL-----KQ-IK-FN-----KGI-IL-DRIVEYIQVLAETILEIQARKKALLAK
Sc_HMS1     HVKPKRITVRVTG-RVSH-----NII-E-----KKY--RSN---IN--DK--IEQLR-----R-TVP-----TLRVAYKKCNLPIISRDLADLDGLG--PA-TK-LN-----KAS-IL-TKSYEYIQLERKCLQLSLANQLND
Sc_CBF1     TTLATTDEWKKQR-KDSH-----KEV-E-----RRR--REN---IN--TA--INVLS-----D-LLP-----V-RE-SS-----KAA-IL-ACAAEYIQKIKETDEANIEKWTLQKLL
Sc_INO2     IPANIEDDFVKVR-KWKH-----VQM-E-----KIR--RIN---TK--EA--FERLI-----K-SVR-----TPPKK-----NG-KR-IP-----KHI-IL-TCVMQDKSIRSANEALQHLDDSDX--
Sc_TYE7     KRRAPRRKLLPFC-KQAH-----KKI-E-----KKY--RIN---IN--TK--IARLQ-----C-IIP-----WVASEQTAFEVGDSVKKQDEGAEATAATPLPSAAA--TS-TK-LN-----KSM-IL-EKAVDIIILQNNRRLYEMEVRLKSE
Sc_PHO4     KRSSGALVDDDK-RESH-----KHA-E-----QSR--RNR---LA--VA--LHILA-----S-LIP-----AEWQQQ--VS-AA-PS-----KAT-TV-EAKCYIRRLQNVVY-----
TpbHLH001  KLSNPEATTEER-RLER-----NQR-E-----KER--SNR---IA--SQ--VDTLR-----C-LLQ-----RGLL-----FI-PK-NT-----KST-VL-NEAANYIRLQERQQQMSMEMEGLKRG
TpbHLH002  GSKSHPATQDPTK-RQER-----NAR-E-----KER--SCR---IA--KQ--IDDLR-----S-LLS-----RGGV-----VV-AK-GT-----KST-IL-TEAANYINVLQQQVQWEMDRGALVQ
TpbHLH003  PASKKKKPLTNER-REER-----NMR-E-----KER--SLK---IT--QQ--IHELK-----G-LLS-----IGGV-----IV-PK-GT-----KST-IL-TEAANYIKQLQQQYRSIDRAQLVQE
TpbHLH004  LAVSEDESCKKKR-RNER-----NLR-E-----QER--SHR---IT--DR--IAELK-----G-VLS-----EAG-----VH-FK-QD-----RYS-IL-VSVVNYIKQLQKRKQSLDEBKRLLET
TpbHLH005  QRQQLLQSKAREA-TRER-----NER-E-----QMR--AKK---IT--QL--IEELR-----M-NMQ-----KEGW-----KE-EM-KS-----KYE-IL-SQCKDVMQFLQRSKKEKASIEHTKLL

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Supplementary Figure 1 – Alignment of the bHLH of all proteins used in this study.

The green bar on the top indicates the region used to perform the ML, NJ and MP analyses in the plant sequences. The red bar indicates the region used to perform the Bayesian analysis in representative eukaryote proteins.