

Figure_S1

S_reilianum	1	MARGRGGRQSNQSAVSDGPDPTPSTSTAAPVDEASANGNGHAVE	TSS	IAGPSKDTFTYHA
U_hordei	1	MARGRG-RASNGSTASEVPDPATSTS----	ATEAVANGNGASNAGAS	ISGPFRDPFSYHA
U_maydis	1	MARARGGCASEGSAASNEPDTAQSAASAANTLAATSTSS	ENGDTETSAAG	GPSKDSFSYHA
C_cinerea	1	-----	MSQGP	NSEIF----
M_musculus	1	-----	MAGTGLVAG	-----
H_sapiens	1	-----	MAGTGLVAG	-----
A_nidulans	1	-----	MPLVDES	-----
A_thaliana	1	-----	MATNNGDVLML	EATPEARPWASA
BCAS2 domain				
S_reilianum	61	VDLAST	DALPYFDRDLELOPGLRS	VDALIAAEQASMTPIDPSTSTRLPPPYE-PFSSRP
U_hordei	56	VELAP	DALPYFDRDLELOPGLRS	VDALVAEEQASMAPIDPTTSSRLPPAYE-LFGSRP
U_maydis	61	VELAP	DALPYFDRELELOPGLRS	VDALIAEEQASMSPISTSSRLPPVYE-LFSTRP
C_cinerea	11	-----	DSLPHYDDDLQKYPNLKSKVDQELARELKALNPTA-ALHP	RVPPVE-LFADRP
M_musculus	10	--EVV	DALPYFDQGYEAP-GVREAAAALVEEETRRYRPTKNYLSYLTAP	DYS-AFET-D
H_sapiens	10	--EVV	DALPYFDQGYEAP-GVREAAAALVEEETRRYRPTKNYLSYLTAP	DYS-AFET-D
A_nidulans	8	-----	DSLPHYID--ATPSAEARAYAEKLIASELSSDYQTS---	VHPSIPEFP-EPKFSP
A_thaliana	25	ANAEV	DALPYIDDYGNP-LIKSEVDR	LVEEEMRRSSKKPADFLKDLPLPKFDFKNC
S_reilianum	120	DLRAELERVASGOPS	AHTLDTORYTLPSF---	PGGPDAPLPDWQAAVDS
U_hordei	115	DLRAELERVASGOPS	SHTLDSORYTLPSF---	EGGDGAPLDWQOTAVDS
U_maydis	119	DLRAELERVASGOPS	STHTLDTHTRYTLPSF---	TSGEAASLSDWQAAVDS
C_cinerea	63	LLKAELDRVKASOP	-FPSLDTLRYQLPAP---	TSTP-ATDEEWKAALNNARAQLOHQIR
M_musculus	65	IMRNEFERLAAROP	-IELLSMKRYELPAP---	SSGOKNDITAWQECVNNSMAQLEHQAVR
H_sapiens	65	IMRNEFERLAAROP	-IELLSMKRYELPAP---	SSGOKNDITAWQECVNNSMAQLEHQAVR
A_nidulans	57	LIQOEIERKAAGLPLTGGID	LARYEAPPTRSADSAPNLD	EWROTLRRAYTASSHLSSR
A_thaliana	84	VLGKEVERVRAGKPPVR	IDFESRYKLEMP---	PANKRNDDAAWKQYLQKNQRSLOOKLIE
S_reilianum	177	LKNIELLKRFGSNAWR	LSNFQOEQDIRMLTEAVEAVRAETNEVNRL	RQKEQTEVGAKIAL
U_hordei	172	LKNVELMKKYGSAWR	LSNFQOEQDIRLLSEQVDAIKGETNEINRL	RQKQTEAGSKLAT
U_maydis	176	MKNIELLKKYGSAWR	LSNFQOEQDIRLLSEQVDAIKGETNEINRL	RQKQTEAGSKLAT
C_cinerea	118	QTNGTLLQTYGANAWRI	QNYLLGSTVKQVESLAEELKQKTVEVNRE	RKNDQERLGKQLTS
M_musculus	121	IENLELMSQHGCNAWKV	YNNENLVHMLEHAQKELQKLREHIQDLN	WQKNNMOLTAGSKLRE
H_sapiens	121	IENLELMSQHGCNAWKV	YNNENLVHMLEHAQKELQKLREHIQDLN	WQKNNMOLTAGSKLRE
A_nidulans	117	QENLSLLEESGKNAWL	LIGNSQLEDILRALEKELAEETKATESV	NKORKIAQESCQGEITG
A_thaliana	141	LENLELMSKLGPELWR	ONNHRLEVFLLTRMORLAQEQNEEIEKVN	REKRYHQOTTSYELNA
S_reilianum	237	LEKRWTELISRGLQLE	EVANVTTSEEVERLQSKKRK---	LEAQLSOLE----
U_hordei	232	LEKRWTELISRGLQLE	EVANITTOSEIDVLRNKKRK---	LEMQLSOLE----
U_maydis	236	LNKRWTELISRGLQLE	EVANITTSQEVDMKSKKRK---	LETELSSLE----
C_cinerea	178	LETRWTELISNIOIEM	ANIALDAEIDRLNKEAE---	LAQOI----
M_musculus	181	MESNWVSLVSKNYE	IERITIVOLENEIYOIKQOHGE---	ANKENIRODF----
H_sapiens	181	MESNWVSLVSKNYE	IERITIVOLENEIYOIKQOHGE---	ANKENIRODF----
A_nidulans	177	LESWRRGVGAILDVEL	AAEDLRMKILEQRRQHAQ---	QOAR----
A_thaliana	201	LSQEWROL	CVKNMETQSACAMLETOIDSFKKEAA	ERGWNLEKTEENVEPLOMO