

An interolog-based barley interactome as an integration framework for NLR immune signaling.

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S2 Text. Protein alignment of the *Mla* alleles, orthologs and outgroup used for Y2H tests

MLA1/1-231	~~~~~MDIVT GAISNLIP.K LGELLTEEFK LHKGVKKNIE DLGKELESMN
MLA3/1-231	~~~~~MDIVT GAISNLIP.K LGELLTEEFK LHKGVKKNIE DLGKELESMN
MLA6/1-231	~~~~~MDIVT GAISNLIP.K LGELLTEEFK LHKGVKKNIE DLGKELESMN
MLA7-2/1-233	~~~~~MDIVT GAISNLIP.K LGELLTEEFK LHKGVKKNIE DLGKELESMN
MLA7/1-231	~~~~~MDIVT GAISNLIP.K LGELLTEEFK LHKGVKKNIE DLGKELESMN
MLA8/1-231	~~~~~MDIVT GAISNLIP.K LGELLTEEFK LHKGVKKNIE DLGKELESMN
MLA9/1-231	~~~~~MDIVT GAISNLIP.K LGELLTEEFK LHKGVKKNIE DLGKELESMN
MLA10/1-231	~~~~~MDIVT GAISNLIP.K LGELLTEEFK LHKGVKKNIE DLGKELD ^Y SMN
MLA12/1-231	~~~~~MDIVT GAISNLIP.K LGELLTEEFK LHKGVKKNIE DLGKELESMN
MLA13/1-231	~~~~~MDIVT GAISNLIP.K LGELLTEEFK LHKGVKKNIE DLGKELESMN
TmMLA/1-231	~~~~~MDIVT GAIAKLIP.K LGELLVGEYK LHKGIKKNIE DLLKELNTMN
Sr33/1-231	~~~~~MDIVT GAIAKLIP.K LGELLVGEYK LHKGVKKNIE DLLKELKTMN
Sr50/1-234	~~~~~MNIVT GAMGSLIP.K LGELLMDEYK LHKRIKKDVE FLKKELESMH
Sr22/1-229	MAEVLVSAST GAMGSLLR.K LGAMLTDEYK LLKNVRGDIK FLKDELEVMC
PBR1/1-226	~~~~~MVSALA GVMTSVIG.K LTALLGEEYA KLKGVHREVE FMKDELSSMN
ZAR1/1-223	~~~~~MVD AVVTVFLE.K TLNILEEKGR TVSDYRKQLE DLQSELKYMQ
PM3A/1-233	MAERVVTMAI GPLVSMLKDK ASSYLLDQYK VMEGMEEQHK ILKRKLPAIL

MLA1/1-231 AALIKIGEVV REQ LDSQDKL WADEVRELSY VIEDVVDKFL VQVDG...IQ
 MLA3/1-231 AALIKIGEVV REQ LDSQDKL WADEVRELSY VIEDVVDKFL VQVDG...IK
 MLA6/1-231 AALIKIGEVV REQ LDSQDKL WADEVRELSY VIEDVVDKFL VQVDG...IQ
 MLA7-2/1-233 AALIKIGEVV REQ LDSQDKL WADEVRELSY VIEDVVDKFL VQVDG...IK
 MLA7/1-231 AALIKIGEVV REQ LDSQDKL WADEVRELSY VIEDVVDKFL VQVDG...IK
 MLA8/1-231 AALIKIGEVV REQ LDSQDKL WADEVRELSY VIEDVVDKFL VQVDG...IQ
 MLA9/1-231 AALIKIGEVV REQ LDSQDKL WADEVRELSY VIEDVVDKFL VQVDG...IK
 MLA10/1-231 AALIKIGEVV REQ LDSQDKL WADEVRELSY VIEDVVDKFL VQVDG...IK
 MLA12/1-231 AALIKIGEVV REQ LDSQDKL WADEVRELSY VIEDVVDKFL VQVDG...IK
 MLA13/1-231 AALIKIGEVV REQ LDSQDKL WADEVRELSY VIEDVVDKFL VQVDG...IK
 TmMLA/1-231 AALIKIGEVV PDQLDSQDKL WADEVRELSY VIEDVVDKFL VRVHG...IE
 Sr33/1-231 AALIKIGEVV PDQLDSQDKL WADEVRELSY VIEDAVDKFL VRVHG...VE
 Sr50/1-234 AALIKIGEVV RDQLDRQVKL WADEVRELSY NMEDVVDKFL VRVDGDGIQQ
 Sr22/1-229 AFLKMSDV. .EEPDEPTKL RVTAVREMSY KIEDNIDKFM VLVEQEHGSS
 PBR1/1-226 ALLQRLAEAD RD.LDVQTKE WRDQVREMSY DIEDCMDDFM KSLGQ...TD
 ZAR1/1-223 SFLKDAERQK RT..NETLRT LVADLRELVY EAEDILVDCQ L.ADGDDGNE
 PM3A/1-233 DVITDVEEQA MAQREGAKA. WLQELRTVAY VANEVFDEFK YEALR...RE

MLA1/1-231 FDDNNNKFKG FMKRTT..EL LKKVKHKKHGI AHAIKDIEQ LQKVADRRDR
 MLA3/1-231 SDDNNNKFKG LMKRTT..EL LKKVKHKKHGI AHAIKDIEQ LQKVADRRDR
 MLA6/1-231 SDDNNNKFKG LMKRTT..EL LKKVKHKKHGI AHAIKDIEQ LQKVADRRDR
 MLA7-2/1-233 SDDNNNKFKG LMKRTTLEL LKKVKHKKHGI AHAIKDIEQ LQKVADRRDR
 MLA7/1-231 SDDNNNKFKG LMKRTT..EL LKKVKHKKHGI AHAIKDIEQ LQKVADRRDR
 MLA8/1-231 FDDNNNKFKG FMKRTT..EL LKKVKHKKHGI AHAIKDIEQ LQKVADRRDR
 MLA9/1-231 SDDNNNKFKG LMKRTT..EL LKKVKHKKHGI AHAIKDIEQ LQKVADRRDR
 MLA10/1-231 SDDNNNKFKG LMKRTT..EL LKKVKHKKHGI AHAIKDIEQ LQKVADRRDR
 MLA12/1-231 SDDNNNKFKG LMKRTT..EL LKKVKHKKHGI AHAIKDIEQ LQKVADRRDR
 MLA13/1-231 SDDNNNKFKG LMKRTT..EL LKKVKHKKHGI AHAIKDIEQ LQKVADRRDR
 TmMLA/1-231 PDDNTNGFKG LIKRTT..KL LKKVVVDKHGI AHAIKDIKE LQEVAARRDR
 Sr33/1-231 PDDNTNGFKG LMKRTT..KL LKKVVVDKHGI AHAIKDIKE LQEVAARRDR
 Sr50/1-234 PHDNSGRFKE LKNKMI..GL FKKGRNHHRI ADAIKEIEQ LQEVAARRDR
 Sr22/1-229 CSEAAHGVAK LMDKCK..NL LPDIKARRRI AKEVKDIKE IKDVSDRFSR
 PBR1/1-226 SAQTA....G LVQSVV..QQ LKALRARHQI SSKIQGLKAR VEDASKRRMR
 ZAR1/1-223 QRSSNAWLSR LHP..... .ARVPLQYKK SKRLQEINER ITKISQVEP
 PM3A/1-233 AKKNGHYIKL GFDVIKLFPT HNRVAFRYKM GRKLCLI... LQAVEVLIAE

MLA1/1-231 NKV..FVPHP TRTIAID... PCLRALYAEA TELVGIYGK. RDQDLMRLLS
 MLA3/1-231 NKV..FVPHP TRTIAID... PCLRALYAEA TELVGIYGK. RDQDLMRLLS
 MLA6/1-231 NKV..FVPHP TRPIAID... PCLRALYAEA TELVGIYGK. RDQDLMRLLS
 MLA7-2/1-233 NKV..FVPHP TRTIAID... PCLRALYAEA TELVGIYGK. RDQGLMRLLS
 MLA7/1-231 NKV..FVPHP TRTIAID... PCLRALYAEA TELVGIYGK. RDQGLMRLLS
 MLA8/1-231 NKV..FVPHP TRTIAID... PCLRALYAEA TELVGIYGK. RDQDLMRLLS
 MLA9/1-231 NKV..FVPHP TRTIAID... PCLRALYAEA TELVGIYGK. RDQGLMRLLS
 MLA10/1-231 NKV..FVPHP TRTIAID... PCLRALYAEA TELVGIYGK. RDQGLMRLLS
 MLA12/1-231 NKV..FVPHP TRTIAID... PCLRALYAEA TELVGIYGK. RDQGLMRLLS
 MLA13/1-231 NKV..FVPHP TRTIAID... PCLRALYAEA TELVGIYGK. RDQGLMRLLS
 TmMLA/1-231 NKFDGIASVP TE..AID... PRLRALYIEA AELVGIYGK. RDKELMSLLS
 Sr33/1-231 NKFDGIASIP TE..AID... PRLRALYIEA AELVGIYGK. RDQELMSLLS
 Sr50/1-234 NKV..AVPNP MEPITID... PCLRALYAEA TELVGIYGK. RDEELMRLLS
 Sr22/1-229 YKIDSSSSM PAKDKVD... PRLRAVYKDA AELVGIDGP. KD.ELVKWL.
 PBR1/1-226 YKLDERTFEP SISRAIN... PRLPSLYAEP DGLVGIDKP. RD.ELIKCL.
 ZAR1/1-223 Y....FEFIT PSNVGRDNGT DRWSSPVYDH TQVVGLEGD. .KRKIKEWLF
 PM3A/1-233 MQVFGFKYQP QPPVS..... KEWRHTDYVS IDPQEIASRS RHEDKKNIIG

MLA1/1-231 MEGDDASNKR LKKVSIVGFG GLGKTTLARA VYE..KIKGD FDCR~
 MLA3/1-231 MEGDDASNKR LKKVSIVGFG GLGKTTLARA VYE..KIKGD FDCR~
 MLA6/1-231 MEGDDASNKR LKKVSIVGFG GLGKTTLARA VYE..KIKGD FDCR~
 MLA7-2/1-233 MEGDDASNKR LKKVSIVGFG GLGKTTLARA VYE..KIKGD FDCR~
 MLA7/1-231 MEGDDASNKR LKKVSIVGFG GLGKTTLARA VYE..KIKGD FDCRC
 MLA8/1-231 MEGDDASNKR LKKVSIVGFG GLGKTTLARA VYE..KIKGD FDCRC
 MLA9/1-231 MEGDDASNKR LKKVSIVGFG GLGKTTLARA VYE..KIKGD FDCRC
 MLA10/1-231 MEGDDASNKR LKKVSIVGFG GLGKTTLARA VYE..KIKGD FDCRC
 MLA12/1-231 MEGDDASNKR LKKVSIVGFG GLGKTTLARA VYE..KIKGD FDCRC
 MLA13/1-231 MEGDDASNKR LKKVSIVGFG GLGKTTLARA VYE..KIKGD FDCRC
 TmMLA/1-231 LEGDDASTKK LKKVSIVGFG GLGKTTLARA VYE..KIKGD FGCHC
 Sr33/1-231 LEGDDASTKK LKKVSIVGFG GLGKTTLAKA VYE..KIKGD FDCHC
 Sr50/1-234 MEGDDASNKR LKKVSIVGFG GLGKTTLARA VYD..KIKGD FDCR~
 Sr22/1-229 ...NEKEGQS LKSVSIVGYG GLGKTTLANQ IRV..NLGAT FDCG~
 PBR1/1-226 MEGMGASVQQ QKVLIVGPG GLGKTTLANE VYR..KLEGQ FQCRG
 ZAR1/1-223 RSNDS....Q LLIMAFVGMG GLGKTTIAQE VFNDKEIEHR FERRG
 PM3A/1-233 ILVDEASNAD LTVVPVAMG GLGKTTLAQL IYNDPEIQKH FQLL~