

Drosophila_malanogaster_antp		RKRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEN	
Micrura_alaskensis_lab	NEYGFAQQ	PNTGRTNFTNKQLTELEKEFHFNKYLTRARRIEIAAALGLNETQVKIWFQNRMMKQKRRM	KEGLVQNNNTAT
Lineus_sanguineus_hox1	QRLCFAQQ	PNTGRTNFTNKQLTELEKEFHFNKYLTRARRIEIAAALGLNETQVKIWFQNRMMKQKRRM	KEGLVQNNNTTG
Lingula_anatina_lab	YQDYSANI	PNMGRTNFSDKQLTELEKEFHFNKYLTRARRIEIAAALGLNETQVKIWFQNRMMKQKRRM	KESQTLPTAAFG
Euprymna_scolopes_lab	GGLGAGCG	NSTGRTNFTNKQLTELEKEFHFNKYLTRARRIEIAAALGLNETQVKIWFQNRMMKQKRRM	KEAQTGTPGLGNT
Capitella_teleta_lab	DFSVFAQQ	PNMGRTNFTNKQLTELEKEFHFNKYLTRARRIEIAAALGLNETQVKIWFQNRMMKQKRRM	KENTSTTPVSDS
Tribolium_castaneum_lab	SSMLSLNC	LNTGRTNFTNKQLTELEKEFHFNKYLTRARRIEIASALQLNETQVKIWFQNRMMKQKRRM	KEGLIPPEPISA
Drosophila_melanogaster_lab	SCSLSSNT	NNSGRTNFTNKQLTELEKEFHFNRYLTRARRIEIANTLQLNETQVKIWFQNRMMKQKRRV	KEGLIPADILTQ
Branchiostoma_floridae_hox1	EYCFSTSG	PNNGRTNFTTKQLTELEKEFHFNKYLTRARRVEIAAALNLNETQVKIWFQNRMMKQKRRR	KENGSTPGSGG
Micrura_alaskensis_pb	PSTFASNN	PRRLRTAYTNSQLLELEKEFHFNKYLTRPRRIEIAASLDLTERQVKVWFQNRMMKYKRQS	GKDGMMNENSVSS
Bugula_turrita_pb		FHFNKYLTRPRRIEIAASLDLTERQVKV	
Capitella_teleta_pb	GSSVASNH	PRRLRTAYTNTQLLELEKEFHFNKYLTRPRRIEIAASLDLTERQVKVWFQNRMMKFKRQT	GKSGSNSPDAEC
Tribolium_castaneum_pb	SSQQENGL	PRRLRTAYTNTQLLELEKEFHFNKYLTRPRRIEIAASLDLTERQVKVWFQNRMMKHKRQT	LGKQGGDDGDDKD
Drosophila_melanogaster_pb	EFVPEENGL	PRRLRTAYTNTQLLELEKEFHFNKYLTRPRRIEIAASLDLTERQVKVWFQNRMMKHKRQT	LSKTDDDEDNKDS
Branchiostoma_floridae_hox2	SPTDQVNS	SRRLRTVFTNTQLLELEKEFHFNKYLTRVCKPRRKEIASYLDLNERQVKIWFQNRMMRQKRRD	TKGRSEIGTDPG
Micrura_alaskensis_hox3	SGKELTOP	PKRSRTAYTSAQLVLELEKEFHFNRYLCPRIEMAALLNLSEIQIKIWFQNRMMKYKDDQ	KQKNLMEKIHME
Lineus_sanguineus_hox3	SELTOP	PKRSRTAYTSAQLVLELEKEFHFNRYLCPRIEMAALLNLSEIQIKIWFQNRMMKYKDDQ	KQKNLMEKIQLE
Lingula_anatina_hox3	FTNGEQP	TKRARTAYTSAQLVLELEKEFHFNRYLCPRIEMAALLNLSEIQIKIWFQNRMMKHAKRN	RSKKSCKSNSSN
Bugula_turrita_hox3		FHFNRYLCPRIEMAALLNLSEIQIKI	
Euprymna_scolopes_hox3	QNIPECEQP	AKRARTAYTSAQLVLELEKEFHFNQYLCPRIEMAALLNLSEIQIKIWFQNRMMRFKKEK	KLKVNMDKSGCG
Capitella_teleta_hox3	GQSQVQQP	SKRARTAYTSAQLVLELEKEFHFNRYLCPRIEMAALLNLSEIQIKIWFQNRMMKYKDDQ	KQKNLMEKQYAG
Tribolium_castaneum_zen	PQRTKPTA	GKRARTAYTSAQLVLELEKEFHFNRYLCPRIEMAALLNLSEIQIKIWFQNRMMKHKKEQ	MNKVSTPRSSPA
Drosophila_melanogaster_zen	NHDSQRVK	LKRSRTAFTSVQLVLELEKEFHFNRYLCPRIEMAALLNLSEIQIKIWFQNRMMFKKDI	QGHREPKNNAKL
Branchiostoma_floridae_hox3	SPGLGAA	GKRARTAYTSAQLVLELEKEFHFNRYLCPRIEMAALLNLSEIQIKIWFQNRMMKYKKEQ	KVKGGGSGGGSG
Micrura_alaskensis_dfd	NGNFNGGE	NKRTRTAYTRHQILELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEH	KLPTNKKLRLPDA
Lineus_sanguineus_hox4	NGNFNGSE	SKRSRTAYTRHQILELEKEFHFNRYLTRRRRIEIAHALDLSEIQIKIWFQNRMMKWKKEH	KLPTNKKLRLP
Bugula_turrita_dfa	DGLD	PKRARTAYTRHQILELEKEFHFNRYLTRRRRIEIAHDLSEIQIKIWFQNRMMKWKKEH	KLPTNKKKIPEI
Bugula_turrita_dfdb	FDGD	NKRTRTAYTRQVLELEKEFHFNRYLTRRRRIEIAHDLSEIQIKIWFQNRMMKWKKDH	KLSSSKGRLPPI
Capitella_teleta_dfd	ANGGFVOD	SKRTRTAYTRHQILELEKEFHFNRYLTRRRRIEIAHDLSEIQIKIWFQNRMMKWKKEH	KLPTNKKTRLTD
Tribolium_castaneum_dfd	GTFAPOME	PKRQRTAYTRHQILELEKEFHFNRYLTRRRRIEIAHDLSEIQIKIWFQNRMMKWKKDN	KLPTNKNVRRKT
Drosophila_melanogaster_dfd	GSYQPEME	PKRQRTAYTRHQILELEKEFHFNRYLTRRRRIEIAHDLSEIQIKIWFQNRMMKWKKDN	KLPTNKNVRRKT
Branchiostoma_floridae_hox4	STSYNGQD	TKRRTAYTRQVLELEKEFHFNRYLTRRRRIEIAHSLGLTERQIKIWFQNRMMKWKKDN	RLPTNKKTRSSA
Micrura_alaskensis_scr	HENVNGME	SKRTRTSYTRYQTLELEKEFHFNRYLTRRRRIEIAHALNLTERQIKIWFQNRMMKWKKEQ	KLAHITKSTAMK
Lingula_anatina_scr	CMNGIE	SKRTRTSYTRHQILELEKEFHFNRYLTRRRRIEIAHALNLTERQIKIWFQNRMMKWKKEQ	KLAHLTKTEAMK
Euprymna_scolopes_scr	YSQDPDGE	SKRSRTSYTRHQILELEKEFHFNRYLTRRRRIEIAHALNLTERQIKIWFQNRMMKWKKEH	KLSHIAKNMNC
Capitella_teleta_scr	GHDTSNAD	NKRTRTSYTRHQILELEKEFHFNRYLTRRRRIEIAHSLNLTERQIKIWFQNRMMKWKKEH	KLAHLAKSQAQK
Tribolium_castaneum_scr	STVNANGE	TKRQRTSYTRYQTLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEH	KMASMNIVPYHM
Drosophila_melanogaster_scr	STVNANGE	TKRQRTSYTRYQTLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEH	KMASMNIVPYHM
Branchiostoma_floridae_hox5	ACTG	NKRTRTAYTRYQTLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEN	KLKLSLQCCQQTQ
Micrura_alaskensis_lox5	LNGEMPIE	QKRTRQTYTRYQTLELEKEFHFNKYLTRRRRIEIAHALGLTERQIKIWFQNRMMKWKKEN	NLQKLTGPNTKI
Lineus_sanguineus_hox6	RFRNANRE	QKRTRQTYTRYQTLELEKEFHFNKYLTRRRRIEIAHALGLTERQIKIWFQNRMMKWKKEN	NLQKLTGPNTKL
Lingula_anatina_lox5	ICYE	QKRTRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHHLGLTERQIKIWFQNRMMKWKKEN	NIPKLTGPNQKI
Bugula_turrita_lox5	TCYE	QKRTRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHHLGLTERQIKIWFQNRMMKWKKEN	NIAKLTG
Euprymna_scolopes_lox5	EETAYE	QKRTRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHSLGLTERQIKIWFQNRMMKWKKEN	NVSKLTGPNKSK
Capitella_teleta_lox5	SGADFCYE	QKRTRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHALQLTERQIKIWFQNRMMKYKKN	NISKLTGPNGEL
Tribolium_castaneum_ftz	HGDSSATG	NKRTRQTYTRYQTLELEKEFHFNKYLTRRRRIEIAESLRLTERQIKIWFQNRMMKAKKDT	KFTEQSVTSTFD
Drosophila_melanogaster_ftz	TLASDCKD	SKRTRQTYTRYQTLELEKEFHFNRYLTRRRRIEIANALSLSERQIKIWFQNRMMKSKKDR	TLDSSPEHCAG
Micrura_alaskensis_antp	MKSQFQPD	RKRGRQTYTRYQTLELEKEFHFNKYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEN	KPSEGGTSCKEE
Lineus_sanguineus_hox7	IFVFIGPD	RKRGRQTYTRYQTLELEKEFHFNKYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEE	NKQPVGIVCKEE
Lingula_anatina_antp	PD	RKRGRHTYSRHQILELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEN	KGIELSRDSDPPQ
Euprymna_scolopes_antp	MRSQYQPH	RKRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEN	KAEMPGTENCKP
Capitella_teleta_antp	NQLKAPPE	RKRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEN	RQIEVLRQHTDD
Tribolium_castaneum_antp	PWMRSQFE	RKRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEN	KTKEGGGSECGG
Branchiostoma_floridae_hox6	SQTAMQEE	KKRGRQTYTRYQTLELEKEFHFNKYLTRRRRIEIAHLLGLTERQIKIWFQNRMMKWKKEN	KIPSLNATTINQ
Branchiostoma_floridae_hox7	PE	RKRGRQTYTRYQTLELEKEFHFNKYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEN	KLESCLKQPAES
Drosophila_antp		RKRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEN	KTKEGPGSGGEG
Micrura_alaskensis_lox4	IVGPNSAQ	RRRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHSLCLTERQIKIWFQNRMMKWKKEE	QQIKELNDSTKD
Lingula_anatina_lox4	PNSAQ	RRRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHSLCLTERQIKIWFQNRMMKWKKEE	QQIKELNDTLKK
Euprymna_scolopes_lox4	IVGPNSSQ	RRRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHSLCLTERQIKIWFQNRMMKWKKEE	QQIREMNGACRS
Capitella_teleta_lox4	VVXPNSSQ	RRRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHSLCLTERQIKIWFQNRMMKWKKEE	QQIKDLNGLDGG
Lingula_anatina_lox2		FNFYLTRRRRIEIAHSLCLTERQIKI	
Capitella_teleta_lox2	IVGPNSNQ	RRRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHSLCLTERQIKIWFQNRMMKWKKEE	QAIKELNEKEKT
Tribolium_castaneum_abda	VCGPNCPP	RRRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHSLCLTERQIKIWFQNRMMKWKKEE	RAVKEINEQARR
Drosophila_melanogaster_abda	FNGPNCPP	RRRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHSLCLTERQIKIWFQNRMMKWKKEE	RAVKEINEQARR
Tribolium_castaneum_ubx	MTFGANGL	RRRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHSLCLTERQIKIWFQNRMMKWKKEE	QAIKELNEQEKQ
Drosophila_melanogaster_ubx	DWLGTNGL	RRRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHSLCLTERQIKIWFQNRMMKWKKEE	QAIKELNEQEKQ
Branchiostoma_floridae_hox8	PE	RRRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHALGLTERQIKIWFQNRMMKWKKEA	AMLCPKPAETET
Micrura_alaskensis_post2	NNSCTEPR	TRKKRKPYPYTRYQTMVLENEFFLNSSYITRQKRWEISCKLHLTERQVKVWFQNRMMKWKKEN	SRAKVKSEVENT
Lineus_sanguineus_hox9	PFSTTEPR	TRKKRKPYPYTRYQTMVLENEFFLNSSYITRQKRWEISCKLHLTERQVKVWFQNRMMKWKKEN	ARSKVKTRMTDA
Lingula_anatina_post2		TRKKRKPYPYTRYQTMVLENEFFLNSSYITRQKRWEISCKLHLTERQVKVWFQNRMMKWKKEN	ERAKALFKSEDI
Bugula_turrita_post2	GSSS	SRKKRKPYPYTRYQTMVLENEFFLNSSYITRQKRWEISCKLHLTERQVKVWFQNRMMKWKKEN	DRAKNAQLTVQQ
Euprymna_scolopes_post2	SQSHETK	GRKKRKPYPYTRYQTMVLENEFFLNSSYITRQKRWEISCKLHLTERQVKVWFQNRMMKWKKEN	ERAKARLREDRE
Capitella_teleta_post2	SQNDAPK	QRKKRKPYPYTRYQTMVLENEFFLNSSYITRQKRWEISCKLHLTERQVKVWFQNRMMKWKKEN	ERAKSLIKDHEP
Lingula_anatina_post1	TTLEAVIH	MRKKRKPYPYTRYQTMVLENEFFLNSSYITRQKRWEISCKLHLTERQVKVWFQNRMMKWKKEN	GGKQT
Euprymna_scolopes_post1	ALPESAIA	LRKKRKPYPYTRYQTMVLENEFFLNSSYITRQKRWEISCKLHLTERQVKVWFQNRMMKWKKEN	KRDETLKTQTPN
Capitella_teleta_post1	SSSKSDVN	PKKKRKPYPYTRYQTMVLENEFFLNSSYITRQKRWEISCKLHLTERQVKVWFQNRMMKWKKEN	TKRAKVQSDLFM
Tribolium_castaneum_abdB	LEWTGQVT	VRKKRKPYPYTRYQTMVLENEFFLNSSYITRQKRWEISCKLHLTERQVKVWFQNRMMKWKKEN	QRQAQQQNNNN
Drosophila_melanogaster_abdB	HEWTGQVS	VRKKRKPYPYTRYQTMVLENEFFLNSSYITRQKRWEISCKLHLTERQVKVWFQNRMMKWKKEN	QRQANQQNNNN
Branchiostoma_floridae_hox9	PGWMNHS	SRKKRCPYTRYQTMVLENEFFLNSSYITRQKRWEISCKLHLTERQVKVWFQNRMMKWKKEN	
Branchiostoma_floridae_hox10	TSWMAPRV	GRKKRCPYTRYQTMVLENEFFLNSSYITRQKRWEISCKLHLTERQVKVWFQNRMMKWKKEN	
Branchiostoma_floridae_hox11	SNWMSAKS	TRKKRCPYTRYQTMVLENEFFLNSSYITRQKRWEISCKLHLTERQVKVWFQNRMMKWKKEN	GRAM
Branchiostoma_floridae_hox12	DVWWKLQS	SRKKRCPYTRYQTMVLENEFFLNSSYITRQKRWEISCKLHLTERQVKVWFQNRMMKWKKEN	QRHEEE
Branchiostoma_floridae_hox13	ADQSVARG	GRKKRCPYTRYQTMVLENEFFLNSSYITRQKRWEISCKLHLTERQVKVWFQNRMMKWKKEN	
Branchiostoma_floridae_hox14	GGGSLTKP	VRPKRKPYPYTRYQTMVLENEFFLNSSYITRQKRWEISCKLHLTERQVKVWFQNRMMKWKKEN	
Micrura_alaskensis_cdx	PNKWKTRT	KDKYRVVYSDRQRLLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEN	KKDQMSGQDVK
Capitella_teleta_cdx		KDKYRVVYSDRQRLLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEN	KMEEALSTSDS
Tribolium_castaneum_cdx		KDKYRVVYSDRQRLLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEN	KREEVTOQDPS
Branchiostoma_floridae_cdx		KDKYRVVYSDRQRLLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEN	
Drosophila_melanogaster_cdx	PQPGKTRT	KDKYRVVYSDRQRLLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMMKWKKEN	KGSDPNVMGVG