

Ambystoma	1	ALKTITVIPGLKTIVGALIQSVKKLADVMILTVFCLAVFALIGLQFLFMGNLRQKCVRWPP
Salamandra	1	ALKTITVIPGLKTIVGALIQSVKKLADVMILTVFCLAVFALIGLQFLFMGNLRQKCVRWPL
Pleurodeles	1	ALKTITVIPGLKTIVGALIQSVKKLADVMILTVFCLAVFALIGLQFLFMGNLRQKCVRWPP
Tylototriton	1	ALKTITVIPGLKTIVGALIQSVKKLADVMILTVFCLAVFALIGLQFLFMGNLRQKCVRWPP
Tar_torosa	1	ALKTITVIPGLKTIVGALIQSVKKLADVMILTVFCLAVFALIGLQFLFMGNLRQKCVRWPL
Tar_granulosa	1	ALKTITVIPGLKTIVGALIQSVKKLADVMILTVFCLAVFALIGLQFLFMGNLRQKCVRWPL
Notophthalmus	1	ALKTITVIPGLKTIVGALIQSVKKLADVMILTVFCLAVFALIGLQFLFMGNLRQKCVRWPL
Cynops	1	ALKTITVIPGLKTIVGALIQSVKKLADVMILTVFCLAVFALIGLQFLFMGNLRQKCVRWPP
Pachytriton	1	ALKTITVIPGLKTIVGALIQSVKKLADVMILTVFCLAVFALIGLQFLFMGNLRQKCVRWPP
Triturus	1	ALKTITVIPGLKTIVGALIQSVKKLADVMILTVFCLAVFALIGLQFLFMGNLRQKCVRWPS

Ambystoma	61	PNNMSEGE MFGFDNSTIFNTTMYNTEIINSTF---DWDEYIHNTDNFYFLDGALDALL
Salamandra	61	PNDTMVEDDLF GFDNGTSFNNTINDTMAMSNSTF---DWQ EYIHNTENFYFLEGALDALL
Pleurodeles	61	PNDTIVDDYMLGFDNGTSFNNTVNNTMEMSNSTF---DWGEYIHNTENFYFQEGALDALL
Tylototriton	61	PNDTIVDDYMLGFDNGTSFNNTVNNTMAMSNSTF---DWGEYIHNTENFYFLDGALDALL
Tar_torosa	61	PNDTMVDDYMLGFDNGTSFNNTVNNTTAISNSTFDSFDWEEYIHNTDNFYFLDGARDALL
Tar_granulosa	61	PNDTMVDDYMLGFDNGTSFNNTVNNTTAISNSTFDSFDWEEYIHNTDNFYFLDGARDALL
Notophthalmus	61	PNDTMVDDYMLGFDNGTSFNNTVNSTTAISNSTF---DWEEYIHNTENFYFLDGARDALL
Cynops	61	PNDTMVDDYMLGFDNDT SFNNTVNDTTAISNSTF---DWKEYIHNTENFYFLEGALDALL
Pachytriton	61	PNDTMVDDYMLGFDNDT SFNNTVNDTTAISNSTF---DWKEYIHNTENFYFLEGALDALL
Triturus	61	PNDTMVDDYMFGLDNST SFNNTVNDTTAISNSTF---DWEEYIHNTENFYFLEGALDALL

Ambystoma	118	CGNSSDAGKCP EGYMCMKAGRPNPYGYTSSYDSFSWAFALFRLMTQDYWENLFQTLTAA
Salamandra	118	CGNSSDAGKCP EGYVCMKAGRPNPYGYTHYDSFNWAFALFRLMTQDYWENLFQTLTAA
Pleurodeles	118	CGNSSDAGRCPEGYMCMKAGRPNPYGYTHYDSFNWAFALFRLMTQDYWENLFQTLTAA
Tylototriton	118	CGNSSDAGRCPEGYKCMKAGRPNPYGYTHYDSFNWAFALFRLMTQDYWENLFQTLTAA
Tar_torosa	121	CGNSSDAGRCPEGYVCMKAGRPNPYGYTHYDSFNWAFSLFRLMTQDYWENLFQTLTAA
Tar_granulosa	121	CGNSSDAGRCPEGYVCMKAGRPNPYGYTHYDSFNWAFSLFRLMTQDYWENLFQTLTAA
Notophthalmus	118	CGNSSDAGRCPEGYMCMKAGRPNPYGYTHYDSFNWAFALFRLMTQDYWENLFQTLTAA
Cynops	118	CGNSSDAGRCPEGYVCMKAGRPNPYGYTHYDSFNWAFALFRLMTQDYWENLFQTLTAA
Pachytriton	118	CGNSSDAGRCPEGYVCMKAGRPNPYGYTHYDSFNWAFALFRLMTQDYWENLFQTLTAA
Triturus	118	CGNSSDAGRCPEGYVCMKAGRPNPYGYTHYDSFNWAFALFRLMTQDYWENLFQTLTAA

Ambystoma	178	GKTYMIFVVIIFLGSFYLINLILAVVAMAYAEQNEATIQEALEKEEEFQKLLQLKKHQ
Salamandra	178	GKTYMIFVVIIFLGSFYLINLILAVVAMAYAEQNEATIQEALEKEEEFQMLLEQLKKHQ
Pleurodeles	178	GKTYMIFVVIIFLGSFYLINLILAVVAMAYAEQNEATIQEALEKEEEFQKLLQLKKHQ
Tylototriton	178	GKTYMIFVVIIFLGSFYLINLILAVVAMAYAEQNEATIQEALEKEEEFQKLLQLKKHQ
Tar_torosa	181	GKTYMIFVVIIFLGSFYLINLILAVVAMAYADQNEATIQEALEKEEEFQKLLQLKKHQ
Tar_granulosa	181	GKTYMIFVVIIFLGSFYLINLILAVVAMAYADQNEATIQEALEKEEEFQKLLQLKKHQ
Notophthalmus	178	GKTYMIFVVIIFLGSFYLINLILAVVAMAYAEQNEATIQEALEKEEEFQKLLQLKKHQ
Cynops	178	GKTYMIFVVIIFLGSFYLINLILAVVAMAYAEQNEATIQEALEKEEEFQKLLQLKKHQ
Pachytriton	178	GKTYMIFVVIIFLGSFYLINLILAVVAMAYAEQNEATIQEALEKEEEFQKLLQLKKHQ
Triturus	178	GKTYMIFVVIIFLGSFYLINLILAVVAMAYAEQNEATIQEALEKEEEFQKLLQLKKHQ

Ambystoma	238	GEQQKLVMEQEKASQASLDL RNAENKT-SSGQDNGNSRDDDQQRKDCNGRIIPRVVIEGS
Salamandra	238	GEQQKV--EQEKASQASLDLINA EKKAAHSGQDTGSSADDDPERKDCNGRIIPKVVIDGS
Pleurodeles	238	GEQQKL--EQERASQASLDL RNAEKKTTTHSGQEPGSSGDE--EKNDCNGKIIPKVVIHGS
Tylototriton	238	GEQQKL--EQEKASQASLDLINA EKKTTTHSGQDPGSSGDE--EKKDCNGKIIPKVVIHGS
Tar_torosa	241	GEQQKL--EQEKASQASLDLINA EKKTTTHSGQDPGSSGDD--EKKDCNGRIIPKVVIDGS
Tar_granulosa	241	GEQQKL--EQEKASQASLDLINA EKKTTTHSGQDPGSSGDD--EKKDCNGRIIPKVVIDGS
Notophthalmus	238	GEQQKL--EQEKASQASLDLINA EKKTTTHS QDPGSSGDD--EKKDCNGRIIPKVVIDGS
Cynops	238	GEQQKL--EQEKASKASLDLINA EKKSTQSGQDPGSSGDD--ERKDCNGRIIPKVVIDGS
Pachytriton	238	GEQHKL--EQEKASKASLDLINA EKKSTQSGQDPGSSGDD--ERKDCNGRIIPKVVIDGS
Triturus	238	GEQQKL--EQEKASKASLDLINA EKKSTQSGQDPGSSGDD--ERKDCNGRIIPKVMTDGS

Ambystoma 297 PKDEE P S P G N D H N K S D S K K S K D H L E E P A R Q T R S A S V I S V I S N A A M E A E L E E A Q Q K C P P W  
Salamandra 296 L N D E S S P A S D E K S P D S R K P S V D Y L A E P A R Q K R A A S V A S V I S N A A M E A E L E D A H K K C P P W  
Pleurodeles 294 P E D E S S P A N D Q N S T D G R K A S V D Y L A E P A R Q K R A A S V A S V I S N A A T E A E L E E A H K K C P P W  
Tylototriton 294 PKDEESSPANDQNSTDSRKASVDYLAEPARQKRAASVASVISNAAMEAELEEAHKKCPPW  
Tar\_torosa 297 PKDEESSPANDQHS TDSRKASVDYLAEPARQKRAASVASVMSNAAMEAELEDAHKKCPPW  
Tar\_granulosa 297 PKDEESSPANDQHS TDSRKASVDYLAEPARQKRAASVASVMSNAAMEAELEDAHKKCPPW  
Notophthalmus 294 PKDEESSPANDQCS TDSRKASVDYLAEPARQKRAASVASVISNAAMEAELEEAHQKCPPW  
Cynops 295 S N D E S S P A N D Q R S T D S R K A S V D Y L A E P A P L K R A A S V A S V M S N A A M E A E I E D A Q K T C P P W  
Pachytriton 295 S N D E S S P A N D Q R S T D S R K A S V D Y L A E P A P L K R A A S V A S V M S N A A M E A E I E D A Q K T C P P W  
Triturus 295 S R D E S S A A N E Q R S T D S R K A S V D Y L A E S A P Q K R S A S V A S V M S N A A M E A E L E D A Q K K C P S W  
Ambystoma 357 W Y K F A H K V L I W D C C A L Y V R F K G M V R F V M D P F V D L G I T I C I V L N T L F M A M E H Y P M T P Q F E  
Salamandra 355 W Y K F A H K F L I W D C C P Q Y V R F K G M V K F V M D P F V D L G I T I C I V L N T L F M A M E H Y P M T P Q F E  
Pleurodeles 354 W Y K F A N K A L I W D C C P I Y V R F K G M V R F V M D P F V D L G I T I C I V L N T L F M A M E H Y P M T P Q F E  
Tylototriton 354 W Y K F A H K A L I W D C Y P I Y V R F K G M V R F V M D P F V D L G I T I C I V L N T L F M A M E H Y P M T P Q F E  
Tar\_torosa 357 W Y K F A H K F L I W D C C P I Y V R F K G M V R F V M D P F V D L G I T I C I V L N T L F M A M E H Y P M T P Q F E  
Tar\_granulosa 357 W Y K V A H K F L I W D C C P I Y V R F K G M V R F V M D P F V D L G I T I C I V L N T L F M A M E H Y P M T P Q F E  
Notophthalmus 354 W Y K F A H K F L I W D C C P L Y V R F K G M V R F V M D P F V D L G I T I C I V L N T L F M A M E H Y P M T Q Q F E  
Cynops 355 W Y K F A H K F L I W D C C P M Y V R F K G M V R F V M D P F V D L G I T I C I V L N T L F M A M E H Y P M T P Q F E  
Pachytriton 355 W Y K F A H K F L I W D C C P M Y V R F K G K V R F V M D P F V D L G I T I C I V L N T L F M A M E H Y P M T P Q F E  
Triturus 355 W Y K F A H N I L I W D C C P M Y V R F K G M V R F V M D P F V D L G I T I C I V L N T L F M A M E H Y P M T P Q F E

Ambystoma 417 H V L N V G N L V F T G I F A A E M V F K I I A L D P Y Y F Q T G W N I F D S I I V T L S L V E L G L A N V Q G L S V  
Salamandra 415 H V L N V G N L V F T G I F A A E M V F K I I G L D P Y Y F Q T G W N I F D S I I V T L S L V E L G L A N V Q G L S V  
Pleurodeles 414 H V L N V G N L V F T G I F A A E M V F K I I A L D P Y Y F Q T G W N I F D S I I V T L S L V E L G L A N V Q G L S V  
Tylototriton 414 H V L N V G N L V F T G I F A A E M V F K I I A L D P Y Y F Q T G W N I F D S I I V T L S L V E L G L A N V Q G L S V  
Tar\_torosa 417 H V L N V G N L V F T G I F A A E M V F K I I A L D P Y Y F Q T G W N I F D S I I V T L S L V E L G L A N V Q G L S V  
Tar\_granulosa 417 H V L N V G N L V F T G I F A A E M V F K I I A L D P Y Y F Q T G W N I F D S I I V T L S L V E L G L A N V Q G L S V  
Notophthalmus 414 H V L N V G N L V F T G I F A A E M V F K I I A L D P Y Y F Q T G W N I F D S I I V T L S L V E L G L A N V Q G L S V  
Cynops 415 H V L N V G N L V F T G I F A A E M V F K I I A L D P Y Y F Q T G W N I F D S I I V T L S L V E L G L A N V Q G L S V  
Pachytriton 415 H V L N V G N L V F T G I F A A E M V F K I I A L D P Y Y F Q T G W N I F D S I I V T L S L V E L G L A N V Q G L S V  
Triturus 415 H V L N V G N L V F T G I F A A E M V F K I I A L D P Y Y F Q T G W N I F D S I I V T L S L V E L G L A N V Q G L S V

Ambystoma 477 L R S F R L L R V F K L A K S W P T L N M L I K I I G N S V G A L G N L T L V L A I I V F I F A V V G M Q L F G K S Y K  
Salamandra 475 L R S F R L L R V F K L A K S W P T L N M L I K I I G N S V G A L G N L T L V L A I I V F I F A V V G M Q L F G K S Y K  
Pleurodeles 474 L R S F R L L R V F K L A K S W P T L N M L I K I I G N S V G A L G N L T L V L A I I V F I F A V V G M Q L F G K S Y K  
Tylototriton 474 L R S F R L L R V F K L A K S W P T L N M L I K I I G N S V G A L G N L T L V L A I I V F I F A V V G M Q L F G K S Y K  
Tar\_torosa 477 L R S F R L L R V F K L A K S W P T L N M L I K I I G N S V G A L G N L T L V L A I I V F I F A V V G M Q L F G K S Y K  
Tar\_granulosa 477 L R S F R L L R V F K L A K S W P T L N M L I K I I G N S V G A L G N L T L V L A I I V F I F A V V G M Q L F G K S Y K  
Notophthalmus 474 L R S F R L L R V F K L A K S W P T L N M L I K I I G N S V G A L G N L T L V L A I I V F I F A V V G M Q L F G K N Y K  
Cynops 475 L R S F R L L R V F K L A K S W P T L N M L I K I I G N S V G A L G N L T L V L A I I V F I F A V V G M Q L F G K S Y K  
Pachytriton 475 L R S F R L L R V F K L A K S W P T L N M L I K I I G N S V G A L G N L T L V L A I I V F I F A V V G M Q L F G K S Y K  
Triturus 475 L R S F R L L R V F K L A K S W P T L N M L I K I I G N S V G A L G N L T L V L A I I V F I F A V V G M Q L F G K S Y K

Ambystoma 537 E C V C K I N Q D C V L P R W H M H D F F H S F L I V F R I L C G E W I E T M W D C M E V A G Q L C L T V F M M V M V  
Salamandra 535 D C V C K I N Q D C V M P R W H M T D F F H S F L I V F R I L C G E W I E T M W D C M E V A G Q G L C L T V F L M V M V  
Pleurodeles 534 D C V C K I S Q D C E M P R W H M T D F F H S F L I V F R I L C G E W I E T M W D C M E V A G Q G L C L T V F M M V M V  
Tylototriton 534 D C V C K I S Q D C E M P R W H M T D F F H S F L I V F R I L C G E W I E T M W D C M E V A G Q G L C L T V F M M V M V  
Tar\_torosa 537 D C V C K I N E D C E L P R W H M T D F F H S F L I V F R I L C G E W I E T M W D C M E V A G Q G L C L T V F M M V M V  
Tar\_granulosa 537 D C V C K I N E D C E L P R W H M T D F F H S F L I V F R I L C G E W I E T M W D C M E V A G Q G L C L T V F M M V M V  
Notophthalmus 534 D C V C K I N E D C E L P R W H M S D F F H S F L I V F R I L C G E Y I E T M W D C M E V A G Q G L C L T V F M M V M V  
Cynops 535 D C V C K I S E D C E L P R W H M T D F F H S F L I V F R I L C G E W I E T M W D C M E V A G Q G L C L T V F M M V M V  
Pachytriton 535 D C V C K I N E D C V L P R W H M T D F F H S F L I V F R I L C G E W I E T M W D C M E V A G Q G L C L T V F M M V M V  
Triturus 535 D C V C K I S E D C E L P R W H M T D F F H S F L I V F R I L C G E W I E T M W D C M E V A G Q G L C L T V F M M V M V

Ambystoma 597 IGNLVVLNLF LALLSSFSADNLSASDEDEGMNNLQIAIGRITRGVDFVKKTVYKIFRRK  
Salamandra 595 IGNLVVLNLF LALLSSFSADNLSASDEDEGMNNLQIAIGRITRAIDFVKKTVLKIIFRRK  
Pleurodeles 594 IGNLVVLNLF LALLSSFSADNLSASDEDEGMNNLQIAIGRITRGVDFVKKTVLKIIFGRK  
Tylototriton 594 IGNLVVLNLF LALLSSFSADNLSASDEDEGMNNLQIAIGRITRGVDFVKKTVLKIIFRRK  
Tar\_torosa 597 IGNLVVLNLF LALLSSFSADNLSASDEDEGMNNLQIAIGRITRGVDFVKKTVLKVFGKK  
Tar\_granulosa 597 IGNLVVLNLF LALLSSFSADNLSASDEDEGTENNLQIAIGRITRGVDFVKKTVLKVFGKK  
Notopthalmus 594 IGNLVVLNLF LALLSSFSADNLSASDEDEGMNNLQIAIGRITRGVDFVKKTVLKIIFRRK  
Cynops 595 IGNLVVLNLF LALLSSFSADNLSASDEDEGMNNLQIAIGRITRGVDFVKKTVLKIIFGKK  
Pachytriton 595 IGNLVVLNLF LALLSSFSADNLSASDEDEGMNNLQIAIGRITRGVDFVKKTVLKIIFGKK  
Triturus 595 IGNLVVLNLF LALLSSFSADNLSASDEDEGMNNLQIAIGRITRGFDVFKKTVLKIIFGKK

Ambystoma 657 PKQDDNMMKKNYVQNHVDTGQDSKSEFNFVDGVLAKAQFLMDEL DHTSNFIHNPNTVL  
Salamandra 655 AKEDDDMMKKNFVQNHVDTGQDSKSDNFNFVDGVLIAKEQFLMDEL DHTSNFIHNPNTVL  
Pleurodeles 654 AKEDEDMKKNFVQNHVDTGQDSKSDNFNFVDGVLTKAQFLMDEL DHTSNFIHNPNTVL  
Tylototriton 654 AKEDEDMKKNFVQNHVDTGQESKSDNFNFVDGVLTKAQFLMDEL DHTSNFIHNPNTVL  
Tar\_torosa 657 AKEDEDMKKNFVQNHVDTGQDSKSDNFNFVDGVSSTKEQFLMDEL DHTSNFIHNPNTVL  
Tar\_granulosa 657 AKEDEDMKKNFVQNHVDTGQDSKSDNFNFVDGVSSTKEQFLMDEL DHTSNFIHNPNTVL  
Notopthalmus 654 AKEDEDMKKNFVQNHVDTGQDSKSDNFNFVDGVLTKAQFLMDEL DHTSNFIHNPNTVL  
Cynops 655 AKEDEDMKKNFVQNHVDTGQDSKSDNFNFVDGVFTKEQFLMDEL DHTSNFIHNPNTV  
Pachytriton 655 AKEDEDMKKNFVQNHVDTGQDSKSDNFNFVDGVFTKEQFLMDEL DHTSNFIHNPNTV  
Triturus 655 AKEDEEMKKNFVQNHVDTGQDSKSDNFNFVDGVFTKEQFLMDQLDHTSNFIHNPNTV

Ambystoma 717 VPIASEESDLENPDEDETSILSGTDDSKDTRVGMNATCMQPTQAKKQINDGDSSIASTAN  
Salamandra 715 VPIASEESDLETPYEDETSILSGTDESKDTRVGMNATCTQPAQAKKKIHDGDSSIASTAD  
Pleurodeles 713 VPIASEESDLETPYEDETSLSSETESKDTRVGMNATCTQPTQAKKKIHDGDSSIASTAD  
Tylototriton 713 VPIASEESDLETPYEDETSLSSETDESKDTRVGMNATCTQPTQAKKKIHDGDSSIASTAD  
Tar\_torosa 716 VPIASEESDLETPYEDETSLSGTDESKDTRVGMNATCTIQPAQAKKKIHDGDSSIASTAD  
Tar\_granulosa 716 VPIASEESDLETPYEDETSLSGTDESKDTRVGMNATCTIQPAQAKKKIHDGDSSIASTAD  
Notopthalmus 713 VPIASEESDLETPYEDETSLSGTDESKDTRVGMNATCAQPAQAKKKIHDGDSSIASTAD  
Cynops 714 VPIASEESDLETPYEDETSLSGTDDSKDTRVGMNATCTQLAQAKKKIHDGDSSIASTAD  
Pachytriton 714 VPIASEESDLETPYEDEASSLSGTDDSKDTRVGMNATCTQLAQAKKKIHDGDSSIASTAD  
Triturus 714 VPIASEESDLETPYEDEASSLSGTDESKDTRVGMNATCTQPAQAKKKIRDGDSSIASTAD

Ambystoma 777 YKPPVEEEEDAAEHKEEGPEECFTEDCVRRCPFLYVDITQEKGRWNNLRKTCFKTIVE  
Salamandra 775 YKPPVKEETEDAAEHPEEGPEECFTEDCVRRCPMLYVDITQEKGIWNNIRKMKCFKIVE  
Pleurodeles 773 YKPPVEEEKDDAEHQEEGPEECFTEDCVRRCPVLYVDITQEKGIWNNIRNMCQIVE  
Tylototriton 773 YKPPVEEDKDDAEHQEEGPEECFTGDCVRRCPVLYVDITQEKGIWNNIRKMKCFKIVE  
Tar\_torosa 776 YKPPVEEEALDAAEHQEEAGPEECFTENCVRRCPILYVDITQERGIWNNLRKTCFKIVE  
Tar\_granulosa 776 YKPPVEEEALDAAEHQEEAGPEECFTENCVRRCPILYVDITQERGIWNNLRKTCFKIVE  
Notopthalmus 773 YKPPVEEEKLDAAEHQEEGPEECFTENCVHRCPILYVDITQERGKTWNNIRKTCFKIVE  
Cynops 774 YKAPVEEEEDAAEHQAEAGPEECFTENCVRRCPILYVDITQERGIWNNIRKTCFKIVE  
Pachytriton 774 YKAPVEEEEDAAEHQAEAGPEECFTEDCIRRCPILYVDITQERGIWNNIRKTCFKIVE  
Triturus 774 YKPHVEEEEDVDSAEHQAEAGPEECFTENCVRRCPNLYVDITQEKGRWNNLRKTCFKIVE

Ambystoma 837 HNWFEFIIIFMILLSSGALAFEDIYIEQRQVIKTILEYADKVFTYVFVIEMLLKWTAYGF  
Salamandra 835 HNWFEFIIIFMILLSSGALAFEDIYIEQRQVIKTILEYADKVFTYVFVIEMLLKWTAYGF  
Pleurodeles 833 HNWFEFIIIFMILLSSGALAFEDIYIEQRQVIKTILEYADKVFTYVFVIEMLLKWTAYGF  
Tylototriton 833 HNWFEFIIIFMILLSSGALAFEDIYIEQRQVIKTILEYADKVFTYVFVIEMLLKWTAYGF  
Tar\_torosa 836 HNWFEFIIIFMILLSSGALAFEDVYIEQRQVIKTILEYADKVFTYVFVIEMLLKWTAYGF  
Tar\_granulosa 836 HNWFEFIIIFMILLSSGALAFEDVYIEQRQVIKTILEYADKVFTYVFVIEMLLKWTAYGF  
Notopthalmus 833 HNWFEFIIIFMILLSSGALAFEDIYIEQRQVIKTILEYADKVFTYVFVIEMLLKWTAYGF  
Cynops 834 HNWFEFIIIFMILLSSGALAFEDIYIEQRQVIKTILEYADKVFTYVFVIEMLLKWTAYGF  
Pachytriton 834 HNWFEFIIIFMILLSSGALAFEDIYIEQRQVIKTILEYADKVFTYVFVIEMLLKWTAYGF  
Triturus 834 HNWFEFIIIFMILLSSGALAFEDVYIEQRQVIKTILEYADKVFTYVFVIEMLLKWTAYGF

Ambystoma 897 KIYFTNAWCWLDFLIVDVSLISLTANWLGYSSELGPIKSLRTLRLRPLRALS RFEGMRVV  
Salamandra 895 KIYFTNAWCWLDFLIVDVSLISLTANWLGYSSELGPIKSLRTLRLRPLRALS RFEGMRVV  
Pleurodeles 893 KIYFTNAWCWLDFLIVDVSLISLTANWLGYSSELGPIKSLRTLRLRPLRALS RFEGMRVV  
Tylototriton 893 KIYFTNAWCWLDFLIVDVSLISLTANWLGYSSELGPIKSLRTLRLRPLRALS RFEGMRVV  
Tar\_torosa 896 KIYFTNAWCWLDFLIVDVSLISLTANWLGYSSELGPIKSLRTLRLRPLRALS RFEGMRVV  
Tar\_granulosa 896 KIYFTNAWCWLDFLIVDVSLISLTANWLGYSSELGPIKSLRTLRLRPLRALS RFEGMRVV  
Notopthalmus 893 KIYFTNAWCWLDFLIVDVSLISLTANWLGYSSELGPIKSLRTLRLRPLRALS RFEGMRVV  
Cynops 894 KIYFTNAWCWLDFLIVDVSLISLTANWLGYSSELGPIKSLRTLRLRPLRALS RFEGMRVV  
Pachytriton 894 KIYFTNAWCWLDFLIVDVSLISLTANWLGYSSELGPIKSLRTLRLRPLRALS RFEGMRVV  
Triturus 894 KIYFTNAWCWLDFLIVDVSLISLTANWLGYSSELGPIKSLRTLRLRPLRALS RFEGMRVV

Ambystoma 957 VNALLGAIP SIMNVLLVCLIFWLIFSIMGVNLFAGKFYRCINTTTSELFPIINVVNNISDC  
Salamandra 955 VNALLGAIP SIMNVLLVCLIFWLIFSIMGVNLFAGKFYRCINTTTSELFPIIDFVNNKSDC  
Pleurodeles 953 VNALLGAIP SIMNVLLVCLIFWLIFSIMGVNLFAGKFYKRCINTTTSELFPIINVVNNKSDC  
Tylototriton 953 VNALLGAIP SIMNVLLVCLIFWLIFSIMGVNLFAGKFYKRCINTTTSELFPIINVVNNKSDC  
Tar\_torosa 956 VNALLGAIP SIMNVLLVCLIFWLIFSIMGVNLFAGKFYKRCINTTTSELFPIIDVNNKSDC  
Tar\_granulosa 956 VNALLGAIP SIMNVLLVCLIFWLIFSIMGVNLFAGKFYKRCINTTTSELFPIIDVNNKSDC  
Notopthalmus 953 VNALLGAIP SIMNVLLVCLIFWLIFSIMGVNLFAGKFYKRCINTTTSELFPIKVVNNKSDC  
Cynops 954 VNALLGAIP SIMNVLLVCLIFWLIFSIMGVNLFAGKFYKRCINTTTSELFPIIDVNNKSDC  
Pachytriton 954 VNALLGAIP SIMNVLLVCLIFWLIFSIMGVNLFAGKFYKRCINTTTSELFPIIDVNNKSDC  
Triturus 954 VNALLGAIP SIMNVLLVCLIFWLIFSIMGVNLFAGKFYKRCINTTTSELFPIIDVNNKSDC

Ambystoma 1017 MA--LNEETEQRWVNVKVNFDNVGLGYLSLLQVATFKGWM DIMYAAVDSREQGEQPEYEI  
Salamandra 1015 MA--LNSSEEARVNVKVNFDNVGLGYLSLLQVATFKGWM DIMYAAVDSREQGEQPEYEI  
Pleurodeles 1013 LA--LNEETEVRWVNVKVNFDNVGLGYLSLLQVATFKGWM DIMYAAVDSREQGEQPEYEI  
Tylototriton 1013 LA--MNYTEEVWVNVKVNFDNVGLGYLSLLQVATFKGWM DIMYAAVDSREQGEQPEYEI  
Tar\_torosa 1016 LA--LNYTEEVWVNVKVNFDNVGLGYLSLLQVATFKGWD DIMYAAVDSREQGDQPVEYEI  
Tar\_granulosa 1016 LA--LNYTEEVWVNVKVNFDNVGLGYLSLLQVATFKGWD DIMYAAVDSREQGDQPVEYEI  
Notopthalmus 1013 LA--LNYTEEARVNVKVNFDNVGLGYLSLLQVATFKGWD DIMYAAVDSREQGEQPEYEI  
Cynops 1014 LALYLNYTEEARVNVKVNFDNVGLGYLSLLQVATFKGWD DIMYAAVDSREQGEQPVEYEI  
Pachytriton 1014 LDLYLNYTEEARVNVKVNFDNVGLGYLSLLQVATFKGWD DIMYAAVDSREQGEQPVEYEI  
Triturus 1014 LA--LNYTEEARVNVKVNFDNVGLGYLSLLQVATFKGWD DIMYAAVDSREQGEQPVEYEI

Ambystoma 1075 NLYMYLYFVIFIIFGAFFTLNLFIGVIIDNFNQKKKFGGKDI FMTEEQKKYYNAMKKLG  
Salamandra 1073 NLYMYLYFVIFIIFGAFFTLNLFIGVIIDNFNQKKKFGGKDI FMTEEQKKYYNAMKKLG  
Pleurodeles 1071 NLYMYLYFVIFIIFGAFFTLNLFIGVIIDNFNQKKKFGGKDI FMTEEQKKYYNAMKKLG  
Tylototriton 1071 NLYMYLYFVIFIIFGAFFTLNLFIGVIIDNFNQKKKFGGKDI FMTEEQKKYYNAMKKLG  
Tar\_torosa 1074 NLYMYLYFVIFIIFGAFFTLNLFIGVIIDNFNQKKKFGGKDI FMTEEQKKYYNAMKKLG  
Tar\_granulosa 1074 NLYMYLYFVIFIIFGAFFTLNLFIGVIIDNFNQKKKFGGKDI FMTEEQKKYYNAMKKLG  
Notopthalmus 1071 NLYMYLYFVIFIIFGAFFTLNLFIGVIIDNFNQKKKFGGKDI FMTEEQKKYYNAMKKLG  
Cynops 1074 NLYMYLYFVIFIIFGAFFTLNLFIGVIIDNFNQKKKFGGKDI FMTEEQKKYYNAMKKLG  
Pachytriton 1074 NLYMYLYFVIFIIFGAFFTLNLFIGVIIDNFNQKKKFGGKDI FMTEEQKKYYNAMKKLG  
Triturus 1072 NLYMYLYFVIFIIFGAFFTLNLFIGVIIDNFNQKKKFGGKDI FMTEEQKKYYNAMKKLG

Ambystoma 1135 SKKPQKPIPRPQNKLGVLVDFVTKQVFDIVIMVLI CLNMVTMMVETDDQSEQKIEILYW  
Salamandra 1133 SKKPQKPIPRPQNKLGVLVDFVTKQVFDIVIMVLI CLNMVTMMVETD NQSAQKIEILYW  
Pleurodeles 1131 SKKPQKPIPRPQNKLGVLVDFVTKQVFDIMIMVLI CLNMVTMMIETDDQSDQKIEILYW  
Tylototriton 1131 SKKPQKPIPRPQNKLGVLVDFVTKQVFDILIMVLI CLNMVTMMIETDDQSEQKIEILYW  
Tar\_torosa 1134 SKKPQKPIPRPQNKLGVLVDFVTKQVFDIMIMVLI CLNMVTMMIETDDQSEQKIEILFW  
Tar\_granulosa 1134 SKKPQKPIPRPQNKLGVLVDFVTKQVFDIMIMVLI CLNMVTMMIETDDQSEQKIEILFW  
Notopthalmus 1131 SKKPQKPIPRPQNKLGVLVDFVTKQVFDIMIMVLI CLNMVTMMIETDDQSEQKIEILFW  
Cynops 1134 SKKPQKPIPRPQNKLGVLVDFVTKQVFDIVIMVLI CLNMVTMMIETDDQSEQKIEILYW  
Pachytriton 1134 SKKPQKPIPRPQNKLGVLVDFVTKQVFDIVIMVLI CLNMVTMMIETDDQSEQKIEILYW  
Triturus 1132 SKKPQKPIPRPQNKLGVLVDFVTKQVFDIVIMVLI CLNMVTMMIETDDQSEQKIEILYW

Ambystoma	1195	INLVFIIVFTGECLLKMFALRHYYFTIGWNIFDFVVLVLSIAGVVLSDIIEKYFVSPPEFF
Salamandra	1193	INLVFIVIFTGECLLKMFALRHYYFTIGWNIFDFVVLVLSIAGVVLSDIIEKYFVSPTLF
Pleurodeles	1191	INLVFIVVFTGECLLKMFALRHYYFTIGWNIFDFVVLVLSIAGVVLSDIIEKYFVSPTLF
Tylototriton	1191	INLVFIVVFTGECLLKMFALRHYYFTIGWNIFDFVVLVLSIAGVVLSDIIEKYFVSPTLF
Tar_torosa	1194	INLVFIVVFSGECLLKMFALRHYYFTIGWNIFDFVVLVLSIAGIVLSDIIEKYFVSPTLF
Tar_granulosa	1194	INLVFIVVFSGECLLKMFALRHYYFTIGWNIFDFVVLVLSIAGIVLSDIIEKYFVSPTLF
Notopthalmus	1191	INLVFIVVFSGECLLKMFALRHYYFTIGWNIFDFVVLVLSIAGIVLSDIIEKYFVSPTLF
Cynops	1194	INLVFIVVFTGECLLKMFALRHYYFTIGWNIFDFVVLVLSIAGIVLSDIIEKYFVSPTLF
Pachytriton	1194	INLVFIVVFTGECLLKMFALRHYYFTIGWNIFDFVVLVLSIAGIVLSDIIEKYFVSPTLF
Triturus	1192	INLVFIVVFTGECLLKMFALRHYYFTIGWNIFDFVVLVLSIAGIVLSDIIEKYFVSPTLF

Ambystoma	1255	RVIRLARIGRVLRLIRGAKGIRTLFLALMMSLPALFNIGLLLFLVMFIYSIFGMSNFAYV
Salamandra	1253	RVIRLARIGRVLRLIRGAKGIRTLFLALMMSLPALFNIGLLLFLVMFIYSIFGMSNFAYV
Pleurodeles	1251	RVIRLARIGRVLRLIRGAKGIRTLFLALMMSLPALFNIGLLLFLVMFIYSIFGMSNFAYV
Tylototriton	1251	RVIRLARIGRVLRLIRGAKGIRTLFLALMMSLPALFNIGLLLFLVMFIYSIFGMSNFAYV
Tar_torosa	1254	RVIRLARIGRVLRLIRGAKGIRTLFLALMMSLPALFNIGLLLFLVMFIYSIFGMSNFAYV
Tar_granulosa	1254	RVIRLARIGRVLRLIRGAKGIRTLFLALMMSLPALFNIGLLLFLVMFIYSIFGMSNFAYV
Notopthalmus	1251	RVIRLARIGRVLRLIRGAKGIRTLFLALMMSLPALFNIGLLLFLVMFIYSIFGMSNFAYV
Cynops	1254	RVIRLARIGRVLRLIRGAKGIRTLFLALMMSLPALFNIGLLLFLVMFIYSIFGMSNFAYV
Pachytriton	1254	RVIRLARIGRVLRLIRGAKGIRTLFLALMMSLPALFNIGLLLFLVMFIYSIFGMSNFAYV
Triturus	1252	RVIRLARIGRVLRLIRGAKGIRTLFLALMMSLPALFNIGLLLFLVMFIYSIFGMSNFAYV

Ambystoma	1315	KKESGVDDIFNFETFGNSIICLFQITTSAGWDGLLNPIIMNSGPPDCDPNLVHAGTSVRGD
Salamandra	1313	KKEAGIDDIFNFETFGNSIICLFQITTSAGWDGLLNPIILNTGPPDCDPTAEHPGTFVRGD
Pleurodeles	1311	KKEGGIDDMFNFNFTFGSSIICLFQSTTSAGWDGLLSPILNTGPPDCDPTAEHPGTLVVRGD
Tylototriton	1311	KKEGGIDDMFNFNFTFGSSIICLFQSTTSAGWDGLLSPILNTGPPDCDPTAEHPGTFVSGD
Tar_torosa	1314	KKEGGIDDMFNFNFTFGSSIICLFQSTTSAGWSDLLIPIIMNTGPPDCDPTTEHPGTFVSGD
Tar_granulosa	1314	KKEGGIDDMFNFNFTFGSSIICLFQSTTSAGWSDLLIPIIMNTGPPDCDPTTEHPGTFVSGD
Notopthalmus	1311	KKEGGIDDMFNFNFTFGSSIICLFQSTTSAGWSDLLNPIIMNTGPPDCDPTIENPGTFVSGD
Cynops	1314	KKESGIDDMFNFNFTFGSSIICLFQSTTSAGWSDLLNPIILNTGPPDCDPTAEHPGTFVSGD
Pachytriton	1314	KKESGIDDMFNFNFTFGSSIICLFQSTTSAGWSDLLNPIILNTGPPDCDPTVEHPGTFVSGD
Triturus	1312	KKEGGIDDMFNFNFTFGSSIICLFQSTTSAGWSDLLSPIMNTGPPDCDPTAEHPGTFVSGD

Ambystoma	1375	CGNPSMGICFFCSYIIISFLIVVNMYIAIILENFNVATEE
Salamandra	1373	CGNPSMGICFFCSYIIISFLIVINMYIAIILENFNVATEE
Pleurodeles	1371	CGNPSMGICFFCSYIIISFLIVVNMYIAIILENFNVATEE
Tylototriton	1371	CGNPSMGICFFCSYIIISFLIVVNMYIAIILENFNVATEE
Tar_torosa	1374	CGNPSMGICFFCSYIIVSFLIVVNMYIAIILENFNVATEE
Tar_granulosa	1374	CGNPSMGICFFCSYIIVSFLIVVNMYIAIILENFNVATEE
Notopthalmus	1371	CGNPSMGICFFCSYIIISFLIVVNMYIAIILENFNVATEE
Cynops	1374	CGNPSMGICFFCSYIIISFLIVVNMYIAIILENFNVATEE
Pachytriton	1374	CGNPSMGICFFCSYIIISFLIVVNMYIAIILENFNVATEE
Triturus	1372	CGNPSMGICFFCSYIIISFLIVVNMYIAIILENFNVATEE