Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	MASNTAGRTRSGDPRDRQAGNSANSKKLSKTSSAVPRNSADSTYRDAAAATGAASDNKGEEGSGQGDKTPASRRSSAGSQGTGEQKATGTAYNNTGTRPP	100 0 0 0 0 0 0 0 0 0 0
Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	VDVQVTRDDTKADSTLFASVGVLYPPQRQGSQSTISTIPAEENISANPPRLLLLSSRAKNSGTIATSVRSNVHVIRYNYENSTLDGILKQAAEVLGGIKV	200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	ESIACVMHSSGGSIYVCSDRLLTSLNIIEQSSIRDFYSTLVENHLDRSFVNARLDFLACSAVQSVESGTILQEMESLLGVSVGMAKDLSAAEISMQRIGE	300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	DSSTTVGELYFREEKLQQLSGSSPQTLAGFEKIRTVGKGAYGTAVLYRKKDDDSLVILKEINMHDLTASERQMALNEVKVLAMLDHPNIITYYDSFEEDG	400 0 0 0 0 0 0 0 0 0 0
Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	VLMIEMEYADGGTLAKYVGQRETPLSEKEILFMFQQIVAAIRHIHEHNILHRDLKTANIFLTKEGVIKVGDFGISKMMTSANHGANTVLGTPYYISPEMC	500 0 0 0 0 0 0 0 0
Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	EGKAYNDKSDIWALGCIMYEMACLHRTFEGSNLPALVNKIMNGQFAPVKGNYSHEFKDLIQDMLQREPQYRPSANELLYHRLPELMARYEEGATEWEDEL	600 0 0 0 0 0 0 0 0

Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	SSSLDGSKQLASCKRRTRSVLVYLDTCAMTLTPIELPAKIKIRQVAVGLEHMVVVAMERAVYTWGEGSKGQLGHGDLLGRSKPEMVEALKGKSIVRACC	700 0 0 0 0 0 0 0 0 0
Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	GDGFSVFVSDNGIVMTCGDGSNGCLGHGDWMSASRPRLIEPLLSVDVRAISCGPHHVVAVGSDGEVFAWGRGKHGCLGLGDEEDHFSPQEVQISEPVFIR	800 0 0 0 0 0 0 0 0 0
Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	EVKCGVDGTMFLTDMGSVLACGNNENNKLGLNHRQGFLRAMKNLLQKVEVPGRKVPTVVRALTNHRAIDMAVGPHHTSVLVEPGKVYTFGRNLEGQLGTG	900 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	HTKPRDAPMEVKDLSISDKTVTMLACGDMFTAVGINSENALFFWGTRYRPKDKPEENNNQSAEGAGAGEEQDHAPIGHRRNSSNISITSAGSVNNIAVES	1000 0 0 0 0 0 0 0 0 0 0
Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	RAHTPTQDTNRLSVSSVGSVQRQVSSSSLNADNTGGDGVDSRETRGRSAKRHSSHSSIGSINIGEKETELITTPTPILRCDSIIGTGGTPGAEPIPLTLT	1100 0 0 0 0 0 0 0 0 0 0
Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	HVVAHGQNLFVQVETAAPPPRKRTRKKRSFKKKMGPNLEVPPRNLHHSASSNDAGDEYTSSEASEYDTQGTIPTWIKNELSTSALVSQDEQDADESEDGG	1200 0 0 0 0 0 0 0 0 0 0 0

Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	VTDDDALTETEASGNDSIVSVETSIQINKELKSKDGMKAIRADWNPKPSPQVGRAKEKEALVLGEDKTQMKRVSTESSVDTFAADELDHLSSSDSSEQMA	1300 0 0 0 0 0 0 0 0 0 0 0
Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	VALRNASEVTKSSEGNHQARKKLSLPTVTTKEGKLAPPSSYRAQEGMKRVGPMPGVQRPLNRLRAGRCRGRAGALVPTVSEPPGGLGKSVAKPIYKTKDT	1400 0 0 0 0 0 0 0 0 0 0 0 0 0
Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	LITEVERLKEEKQRAEEQLEKVQETYKAQQQKLEQEQQQVVEERERKLQEEIEILRQELTIQSNALKENQNIMMSLQDQLVRVQSEQLRANAREKRAASA	1500 0 0 0 0 0 0 0 0 0 0 0 0

Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	RSQPISSPLKKPERVRQAQFGPGLPARRQHPDPLQSRPGTMSPLP.VLFLYIFTVCVSAACPSQHYDSSGACCSQCPPGEGVTTPCSDGNGTGC	1593 54 54 67 64 53 53 71 0 57 65 56 55
Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	TACVPGQTFSNSRSHTEQCLDCTGGGANM.KVVSPCNRTHDTVCECSADFYWDEETSRCERCQICPPGFGAVEACSPRQDSGCVACPNMTYSDVDS EPCLDSVTYSDTISHTEACKPCTECFGHK.RMEAPCVESDDAVCACAYGYFTDKKSGQCKLCKSCPEGFGMMMSCTNIQDTICEKCPEGTYSDEDN EPCLDSVTYSDTVSATEPCKPCTQCVGLH.SMSAPCVESDDAVCRCAYGYFQDELSGSCKECSICEVGFGGMMFPCRDSQDTVCEECPEGTFSDEAN EPCLDSVTFSDVVSATEPCKPCTECLGLQ.SMSAPCVEADDAVCRCSYGYYQDEETGRCEACSVCGVGGSGLVFSCQDKQNTVCEECPEGTFSDEAN EPCLDSVTFSDVVSATEPCKPCTECVGLQ.SMSAPCVEADDAVCRCSYGYYQDETTGRCEACRVCEAGSGLVFSCQDKQNTVCEECPEGTYSDEAN EPCLDSVTFSDVVSATEPCKPCTECVGLQ.SMSAPCVEADDAVCRCAYGYYQDETTGRCEACRVCEAGSGLVFSCQDKQNTVCEECPEGTYSDEAN EPCLDSVTFSDVVSATEPCKPCTECVGLQ.SMSAPCVEADDAVCRCAYGYYQDETTGRCEACRVCEAGSGLVFSCQDKQNTVCEECPEGTYSDEAN EPCLDSVTFSDVVSATEPCKPCTECVGLQ.SMSAPCVEADDAVCRCAYGYYQDETTGRCEACRVCEAGSGLVFSCQDKQNTVCEECPEGTYSDEAN EPCLDSETFSENFSHKDKCLPCTQCSELM.RMLTPCTDANDALCVCDYGFFLNQLSGRCEACTVCPVGQGVQVPCNFERDTVCEKCEDDTYSDQDT EPCLDSETFSENFSHKDKCLPCTQCSELM.RMLTPCTDANDALCVCDYGFFLNQLSGRCEACTVCPVGQGVQVPCNFERDTVCEKCEDDTYSDQDT TQCLDSETFSATFSHTDKCQVCTECTGLM.RMQTPCTDSNDAECVCNYGYFMNVLSSRCEPCTVCPLGQGVDMRCELNHDTVCEECRDETYSDQEN QPCQDGVSFSDSESL.LSCTLCAHCPIGI.PQLARCTKTQDTRCDCGEHFFLWRDGNSTGGLCAPCRKCGPGWGVSQACGLLGDTKCELCKPGTYSKDTS EPCAQKKEPQIPEQAE	1688 149 149 162 159 148 148 166 0 155 83 151
Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR Human NGFR Zebrafish NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	PSAQCVACTLCTDS.QVMLQTCTSISDTICLDKNMPQLIGANVGRTTP	1743 223 231 247 244 240 240 221 46 232 107 212 210

Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR	DASGQNIIPVYCSIMGAVVVGLIVYVAVKRWKTCQKPQGTKSGPQGTDVEAQKNQNNDSGVCVDPCTTPSGGKTRVSELSS TGVAENLIPVYCSILAAVIAGLVAFIVFKRWNSCKQNKQGGNSHPVNQTPSPEGEKLHSDSGISVNSDSTAEQPTGHPQGKNDMHLHNKLSS RGTADNLIPVYCSILAAVVVGLVAYIAFKRWNSCKQNKQGANNRPVNQTPSPEGEKLHSDSGISVDSQSLHDQQPPNQSTQGPAPKGDGSLYASLPP	1824 315 328
Mouse NGFR Human NGFR Zebrafish NGFR Zebrafish NGFR like 12	RGTADNLIPVYCSILAAVVVGLVAYIAFKRWNSCKQNKQGANSRPVNQTPPPEGEKLHSDSGISVDSQSLHDQQTHTQTASGQALKGDGNLYSSLPL RGTTDNLIPVYCSILAAVVVGLVAYIAFKRWNSCKQNKQGANSRPVNQTPPPEGEKLHSDSGISVDSQSLHDQQPHTQTASGQALKGDGGLYSSLPP HGLSDNLIPTYTSILAAVLLGLVAFITFKRWNSCKQNKQANNRACSANPSQTPSPEGEKLHSDSGISVDSQSLQDGQGPPHTVVKIDGGSALSLPL DRLSDNLIPTYTSILAAVLLGLVAFITFKRWNSCKQNKQANNRACSANPSQTPSPEGEKLHSDSGISVDSQSLQDGQGPPHTVVKIDGGSALSLPL	344 341 336 336
Zebrafish NGFR like 3 Mouse NRADD Zebrafish NRADD Chicken NRADD	RGLNENLIPIYCSILAAVVVGLLAYI <mark>I</mark> FKRWNSCKQNKQAANNR.AATANQTPSPEGEKLHSDSGISVDSQSLQEQQAQTQTQAQAQAHTQL PGASSNIIPVYCALLATVILGLLAYVAFKCWRSHKQRQQLAKARTVELGDPDR.DQRRGDSNVFVDSPPSLEPCIPSQGPHPDLGCQLYLHIPQ DQGGNNNILVYVSVLAAVVLGLLLYVAYKCWKSCQQKQALVKARVGELNNAGEGEKLHSDSGVFLDSHSLQESQPSKGSKRDSKQDTRLYINLPP EDVGQNIIPVYCSLLAAVVVGLLAYVAFKCWHTCRQKQQLAKARAAELGTTAEGEKLHSDSGVFLDTHSLQEPHQMGKATRLEARPYSSVPQ	312 139 327 199
Xenopus tropicalis NRADD Xenopus laevis NRADD	EDNSKNIIPVYCSILAAVVVGLIGYVAFKCYTTCKQKKQLAKARAGELATSGEGEKLHSDSGVFLDTHSLQEQNQLSKA.KTEPKLYINLPP ADNSKNIIPVYCSILAAVVVGLICYVAFKCYTTCKQKKQLAKARAGELATSAEGEKLHSDSGVFLDTHSLQEPNHLSKA.KIEPKLYINLPP	303 301
Lancelet NGFR/NRADD Xenopus L NGFR Chicken NGFR Mouse NGFR	SRLRDLVFTLSLQHPVNWRHLASELGYDIAAIDEFEQGNNNGPGAAKAFLVHWSRMENATVDNLCQALRAIGRQDVIGLLQECNMGRHL HKQEEVEKLLSGSLEQTWKSLAGELGYQDEIIDSFTREEFPVRAMLSDWSSKDSATTDALYTALRKIQRDDIAQSLNSDSTATSP SKQEEVEKLLSSSAEETWRQLAGELGYKEDLIDCFTREESPARALLADWSAKETATLDALLVALRKIQRGDIAESLYSESTATSP TKREEVEKLLNGDTWRHLAGELGYQPEHIDSFTHEACPVRALLASWGAQDSATLDALLAALRRIQRADIVESLCSESTATSP AKREEVEKLLNGSAGDTWRHLAGELGYQPEHIDSFTHEACPVRALLASWATQDSATLDALLAALRRIQRADIVESLCSESTATSP HTREEVEKLLNRTNEGEESAANEETDWCSLAGLLGYKEEHIANFKQEERPIQALLSHWASQDSA.NIDTLCTALKKINREDIAQSIIVKPTATSA	1913 400 413 426
Human NGFR Zebrafish NGFR Zebrafish NGFR like 12 Zebrafish NGFR like 3	HAAEQIVVRVDGATQPDSPPAQA	335
Mouse NRADD Zebrafish NRADD Chicken NRADD Xenopus tropicalis NRADD Xenopus laevis NRADD	QQQEEVQRLLMMGEPAKGWQELAGHLGYQAEAVETMACDQMPAYTLLRNWAAQEGNRATLRVLEDALAATGREDVVQVLSSPAESSSV HRQEEVEGLLAEGGNRSWKQLAATLGYEQERVDVFGRGQDPIHTLMTDWSQQEGSTLGLLCSALTRIERPDIITALTAPTQGVSV QRREEVEQLLESGGPNGDWRGLAARLGYGDEAVGTFARGQAPARTLLATWAATEGATVEALCRALAAMGRQDVAECLAGPGDASSV HKQSEVERLLADTSLGKDWQRLASLLGYEEETIDTFGRGVDPVHTLLTDWSSKESSTLEVLCAALVNMERADVVENLNSTNDGSSV HKQSEVERLLADTSLGKDWQRLASLLGYEEETIDTLGRGEDPVHTLLTDWSSKESSTLEVLCAALVNMERADVVENLNSANDASSV	227 412 285 389 387
Lancelet NGFR/NRADD Xenopus L NGFR	V 1914 V 401	
Chicken NGFR Mouse NGFR Human NGFR	V 414 V 427 V 427	

X non-conserved

 \geq 50% conserved