

CLUSTAL 2.1 MULTIPLE SEQUENCE ALIGNMENT

File: /media/morpheus/disk1/fst/pep_msa/DRCDaps: Tue Feb 1 12:00:58 2022

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Mus_musculus	MSRPYDSMEPKVMDDDDLKAAVGEQGPQEEAGQLAKQEGILFKDVLSLQLDFONILRIDN	60
Rattus_norvegicus	MSRPYDSMEPKVMDDDDLKQVAVGEQGPQEEAGQLAKQEGILFKDVLALQLDFONILRIDN	60
Canis_lupus_familiaris	MHRLYNLSLEPRVMDEDMLKLAVGEQGPREEAGQLARQEGILFKDVLSLRLDFONILRIDS	60
Equus_caballus	MNRLCNSMEPRVMDDDDLKLAVGEQGPREEAGQLAKQEGILFKDVLSLQLDFONILRIDN	60
Bos_taurus	MNRLYD-MEPRVMDDDDLKLAVGEQGPREEAGQLAKQEGILFKDVVSLQLDFONILRIDN	59
Homo_sapiens	MNQP CNSMEPRVMDDDDLKLAVGDAQGPQEEAGQLAKQEGILFKDVLSLQLDFRNILRIDN	60
Pan_troglodytes	MNRPCNSMEPRVMDDDDLKLAVGDAQGPQEEAGQLAKQEGILFKDVLSLQLDFRNILRIDN	60
Macaca_mulatta	MNRLCDSMEPKVMDDDDLKLAVGEQGPQEEAGQLAKQEGILFKDVLSLQLDFRNILRIDN	60
Callithrix_jacchus	MNRLYDSMEPRVIDDDMLKLAVGEQSSQEEAGELAKQEGILFKDVLSLQLDFRNILHIDN	60
Xenopus_tropicalis	MSSLYDTMEPNVIDDDMLRNAVEEQGPKEEAGRIAKLEGIDFKHVVSLRLDFKNILKIDN	60
Rhinatrema_bivittatum	MSRLYGSIEPSVVDDEMLQKAVEEQGPKEEAGRIAKAEGIDFKDVLQLRLDFRNILKIDN	60
Latimeria_chalumnae		
Pavo_muticus	MSQSDNSFEPNVIDDEMLQKAVEEQWP-EDIRKLAKAEGINFKDVMEQLSFRNIIQIDN	59
Pavo_cristatus	MSQSDNSFEPNVIDDEMLQKAVEEQWP-EDIRKLAKAEGINFKDVMEQLSFRNIIQIDN	59
Gallus_gallus	MSQSDNSFEPNVIDDEMLQKAVEEQWP-EDIRKLAKAEGINFKDVMEQLSFRNIIQIDN	59
Chelonia_mydas	MSRLYDTIEPNVIDEELQKAVEEQGPQEEAGQLAKREGIDYKDVLEQLDFRNILKIDN	60
	1.....10.....20.....30.....40.....50.....60	

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Mus_musculus	LWQFENLKKQLDNNNIIERIEGLTNLIHLVWLDSLFFNNIEAIEGLDTLVNLEDLSLSMNR	120
Rattus_norvegicus	LWQFENLRKLQDNNNIIERIEGLENLTHLVWLDSLFFNNIEAIEGLDTLVNLEDLSLSHNR	120
Canis_lupus_familiaris	LWEFENLTKLQDNNNIEKIEGLEQLVHLVWLDSLFFNNIEAIEGLDTLVNLEDLSLFMNR	120
Equus_caballus	LWQFENLRKLQDNNLIERIEGLENLTHLVWLDSLFFNNIEAIEGLDALVNLEDLSLFMNR	120
Bos_taurus	LWQFESLQKLQDNNNIEKIEGLENLTRLVWLDSLFFNNIEAIEGLDTLVNLEDLSLFMNR	119
Homo_sapiens	LWQFENLRKLQDNNNIEKIEGLENLAHLVWLDSLFFNNIETIEGLDTLVNLEDLSLFMNR	120
Pan_troglodytes	LWQFENLRKLQDNNNIEKIEGLENLAHLVWLDSLFFNNIETIEGLDTLVNLEDLSLFMNR	120
Macaca_mulatta	LWQFENLRKLQDNNNIEKIEGLENLTHLVWLDSLFFNNIETIEGLDTLVNLEDLSLFMNR	120
Callithrix_jacchus	LWQFENLRKLQDNNNVIEKIEGLENLTHLVWLDSLFFNNIETIEGLDTLVNLEDLSLFMNR	120
Xenopus_tropicalis	LWFHSLTKLQDNNNIEKISGLDTVLHVWLDSLFFNNIEVIEGLKALTKLEDLSLYNNR	120
Rhinatrema_bivittatum	LWQFVNLTMLQDNNNIEKIEGLEMLVNLVWLDSLFFNNIEAIEGLDSLVKLEDLSLYNNR	120
Latimeria_chalumnae	-----MTIVS-----DLFFNNIEVIEGLDALLKLEDITLYNNR	33
Pavo_muticus	LWQFENLTKLQDNNNIEKIEALESIVHLVWLDSLFFNNIEVIEGLDTLVKLQDLSLYNNR	119
Pavo_cristatus	LWQFENLTKLQDNNNIEKIEALESIVHLVWLDSLFFNNIEVIEGLDTLVKLQDLSLYNNR	119
Gallus_gallus	LWQFENLTKLQDNNNIEKIEALESIVHLVWLDSLFFNNIEVIEGLDTLVKLQDLSLYNNR	119
Chelonia_mydas	LWQFVNLTMLQDNNNIEKIEALSIVHLIWLDLFFNNIEVIEGLEALVKLQDLSLYNNR	120
70.....80.....90.....100.....110.....120	

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Mus_musculus	ISKVDSLDAVLKLOVLSLGNQISNMNIIYLRRFPCLRTLSLAGNPVSEAEYKMFIYA	180
Rattus_norvegicus	ISKIDSLDPLVNLOVLSLGNQINNMMNIIYLRRFPCLRTLSLSGNPVSEAEYKVFIYA	180
Canis_lupus_familiaris	ISKIDSLDALVKLOVLSLGNQIGNMNIIYLRRFKDLRTLSSLGNPIAASEDYKMFVCA	180
Equus_caballus	ITKIDSLDSLVKLOVLSLGNQIGNMNIILYLRFFKALRTLSSGNPIAAEDYKMFICA	180
Bos_taurus	ISKIDSLDALVKLOVLSLGNNHIGNMNIIYLRRFKALRTLSSGNPVAEEDYKMFICA	179
Homo_sapiens	ISKIDSLDALVKLOVLSLGNNRIDNMNIIYLRRFKCLRTLSSSRNPISEAEDYKMFICA	180
Pan_troglodytes	ISKIDSLDALVKLOVLSLGNNRIDNMNIIYLRRFKCLRTLSSSRNPISEAEDYKMFICA	180
Macaca_mulatta	ISKIDSLDALVKLOVLSLGNQIDNMNIVYLRRFQCCLRTLSSGNPISEAEDYKMFICA	180
Callithrix_jacchus	ISNIDSLDALVKLOVLSLGNQNIDNMNIIYLRFRCRLMLSSGNPISEVEDYKMFICA	180
Xenopus_tropicalis	ISVVENMDTLNLOVLSLGNNLDTSENLIYLRKFQLRTLSSLAGNPLSDEDDYKLFIAA	180
Rhinatrema_bivittatum	IPQIENMDALEKLOVLSLGNNILTSLENLLGLRNFQQLRTLNLAGNPISDHDDYKLFIAA	180
Latimeria_chalumnae	ISRLENMDTLTNLOVFSVGNNCINQLENIVYLRRFKHLRTLNLAGNAISEDYKMFVAA	93
Pavo_muticus	ISKIEHMDTLQELQIFSIGKNLTLENVVYLRRFKNLHTLNLTGPNFCNEEQYMLFVVA	179
Pavo_cristatus	ISKIEHMDTLQELQIFSIGKNLTLENVVYLRRFKNLHTLNLTGPNFCNEEQYMLFVVA	179
Gallus_gallus	ISKIEHMDTLQELQIFSIGKNLTLENVVYLRRFKNLHTLNLTGPNFCNEEQYMLFVVA	179
Chelonia_mydas	ISKIENLDTLQELQVFSIGNNLTALENVVYLRRFKNLHTLNLTGPNVCNEEQYSMFIAA	180
 130 140 150 160 170 180	

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      *.** ***: : :
Mus_musculus      YLSDLVYLD FRRVDEQM-----REMAKMKHQYSIDELKHREAQLQM 221
Rattus_norvegicus YLPDLVYLD FRRVDEQA-----REVAKMKHQYSIDELKHREALMOI 221
Canis_lupus_familiaris YLPDLVYLD FHRIDDDHM-----KEMAEKSHQYSIDELKHRENLIQS 221
Equus_caballus     YLPDLVYLD FRRIDDDHM-----KELAEKMKHQYSIDELKHRENLIQA 221
Bos_taurus        YLPDLVYLD FRRLLDDHM-----KELAEKMKHQYSIDELKHRENLMQA 220
Homo_sapiens       YLPDLMYLD YRRIDDDHT-----KKLAEAKHQYSIDELKHQENLMQA 221
Pan_troglodytes   YLPDLVYLD YRRIDDDHTASVSLSVSOPCETESSSPQKKLAEAKHQYSIDELKHRENLMQA 240
Macaca_mulatta    YLPDLVYLD FRRIDDDHT-----KELAEAKHQYSIDELKHRENLMQV 221
Callithrix_jacchus YLPDLVYLD FRRIDDDHT-----KEVAEAKHHYSTIEELKHRENLMQA 221
Xenopus_tropicalis HLPNLAYLD FRLNENI-----REMATMKYQYSIDDIITHNENQEKR 221
Rhinatrema_bivittatum YLPNLVYLD FRLLDENT-----KEIAAVKYQDDIDDLKRSENLIIT 221
Latimeria_chalumnae HLPDLVYLD FRLIDEHS-----RDVGNQYQYATIEELRQDERAALV 134
Pavo_muticus      NLPGLVYLD FKLVSDDTT-----REVAISNYHYLTDVLEHEEEAQALA 220
Pavo_cristatus    NLPGLVYLD FKLVSDDTT-----REVAISNYHYLTDVLEHEEEAQALA 220
Gallus_gallus     HLPGLVYLD FKLVSDDTT-----REVAISNYHYLTDVLEHEEEAQALA 220
Chelonia_mydas    HLPDLVYLD FRLDDNT-----RELAEIKYQYATIDELKQGEAQALA 221
      .....190.....200.....210.....220.....230.....240

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Mus_musculus      KLEEEQAKQEKLEEHK-----MAFVEHLNGPFLFDSMYSEDVEGNKLSYLPGVRELLEA 275
Rattus_norvegicus RLEEEQAKQKLAHEK-----MAFVEHLNGPFLFDSMYSDDEGNKLSYLPGVGELLEA 275
Canis_lupus_familiaris RLEDEQAQEELEKHK-----AAFVEHLNGSFLFDSMYTEDVEGNKLAYLPGISELLOA 275
Equus_caballus     RLEDEQARREELEEHK-----AAFVEHLNGSFLFDSMYAEDVEGSKLTCLPGVSELLEA 275
Bos_taurus        RLEDEQARREELEEHK-----AAFVEQLNGTFLFDSMYAEDVEGSKLSHLPGVGELLEA 274
Homo_sapiens       QLEDEQAQREELEKHK-----TAFVEHLNGSFLFDSMYAEDSEGNKLSYLPGVGELLEA 275
Pan_troglodytes   QLEDEQARREELEKHK-----TAFVEHLNGSFLFDSMYAEDSEGNKLSYLPGVGELLEA 294
Macaca_mulatta    RLQDERARQEELEKHKVCFCLQTAFVEHLNGSFLFDSMYAEDSEGNKLSYLPGVSELLEA 281
Callithrix_jacchus RLEEEQVRREELERHK-----TAFVEHLNGSFLFDSMYAEDSEGNKLSYLPGVSELLEA 275
Xenopus_tropicalis KQEEEEQKQRELDLHK-----AAYVENLNGPFLFESMYADDADGTKLSGLPGVAELMDS 275
Rhinatrema_bivittatum KLKEESEKNKELEYHK-----AAFVEYLNSFLFESMYAEDVESEKLSLIPGVAGLLET 275
Latimeria_chalumnae KQEEERLKQEELDHLK-----AAYVEYLNGPFLFDSMFAEDADGVKLACLPGVADLLEA 188
Pavo_muticus      QLEEKQAQKKELEYHK-----TAFVEYLNGSFLFDSLYAEDTEAAKLAYLPGVDDLLQA 274
Pavo_cristatus    QLEEKQAQKKELEYHK-----TAFVEYLNGSFLFDSLYAEDTEAAKLAYLPGVDDLLQA 274
Gallus_gallus     QLEEKQAQKKELEYHK-----TAFVEYLNGSFLFDSLYAEDTEAAKLAYLPGVDDLLQA 274
Chelonia_mydas    KLVEEQAKQKELEHHT-----AAYVEYLNGSFLFESMYAEDTEAARLAYLPGMADLLET 275
      .....250.....260.....270.....280.....290.....300

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Mus_musculus      YKDKFVIIICLNIFEYGLNQQEKRKVELDTFNECIEAILENQDQGKLKVAKFEEKHLLNL 335
Rattus_norvegicus YKDKFVIIICLNIFEYGLSQQEKRKIELDTFNECIEAIQENQDQGKLKIAKFEEKHLLNL 335
Canis_lupus_familiaris YKDKFVIIICLNIFEYGLKQQEKRKLELDTFNECVQEAIQENQEQGKHRIAKFEEKHLLSL 335
Equus_caballus     YKDKFVIIICLNIFEYGLKQQEKRKVELDTFNECIEAIQENQEQGKHRIAKFEEKHLLSL 335
Bos_taurus        YKDKFVIIICLNIFEYGLKQQEKRKAELDTFMECVQEAIQENQEQGKLKIAKFEEKHLLSL 334
Homo_sapiens       YKDKFVIIICVNIFEYGLKQQEKRKTELDTFSECVREAIQENQEQGKRKIAKFEEKHLLSL 335
Pan_troglodytes   YKDKFVIIICVNIFEYGLKQQEKRKTELDTFSECVHEAIQENQEQGKRKIAKFEEKHLLSL 354
Macaca_mulatta    YKDKFVIIICVNIFEYGLKQQEKRKIELDTFSECVHEAIQENQEQGKRKIAQFEEKHLLSL 341
Callithrix_jacchus YRDKFVIIICVNIFEYGLKQQEKWKTELDTFNECVHEAIQENQEQGKRKIAKFEEKHLLMSL 335
Xenopus_tropicalis YRSKCIEICQNIFEYGLMKQHEKREAEAFEFNECMQEAIRENQEQGAKKIQELTEKNSEIL 335
Rhinatrema_bivittatum YKSKCTAVCQNIFEYGLNHHEKREAEQIFSECLQEAINEQELGVQKIKDNENKATIELY 335
Latimeria_chalumnae YKTKFVAICQQIFIEYGLQOYEKREDEVKTFHECIEAIDKNQDMGSKLIREFEDSKSEVF 248
Pavo_muticus      YRKDFVSVCCENLFNYCLKEHEKREAEVSDFYDGLREVLTANQEEGRRIILDFENQNKTRL 334
Pavo_cristatus    YRKDFVSVCCENLFNYCLKEHEKREAEVSDFYDGLREVLTANQEEGRRIILDFENQNKTRL 334
Gallus_gallus     YRKDFVSVCCENLFNYCLKEHEKREAEVSDFYEGLEVLNANQEEGRRIILDFENQNKTRL 334
Chelonia_mydas    YKSKFVLICENLFAYGLKEHEKREAEVSTFYECLEAIDSDSQQQGTIKIILDFENDNQGQL 335
      .....310.....320.....330.....340.....350.....360

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Mus_musculus	NAIREETDLNIEKKLTECTESIGELFNILMILEMOLVEQLEETINIFERNITDLVGLFI	395
Rattus_norvegicus	NAIREESDLFTMQKLTENESITELFNILMILEMOLVEQLEETINVFERNITDLVGLFI	395
Canis_lupus_familiaris	NAIRDESELTNFEMKIVEYGKDITELFNVLMTLEMOLVEQLEETINMFERNITDLVGLFI	395
Equus_caballus	SAIRDESELTKLEKKIVEYSGDITELFNVLMTLEMOLVEQLEETINMFERNIVDLVGLFI	395
Bos_taurus	NAIREESELSSITKIVEYSEDITELFNVLMTLEMOLVEQLEETINMFERNITDLVGLFI	394
Homo_sapiens	SAIREEELNPNIEKMLECSADISELFDALMTLEMOLVEQLEETINMFERNIVDMVGLFI	395
Pan_troglodytes	SAIREESELNPNIEKMLECSADISELFDALMTLEMOLVEQLEETINMFERNIVDMVGLFI	414
Macaca_mulatta	SAIREESELNPNIEKMLECSADVSELFNEMMLEMOLVEQLEETINMFERNIVDMVGLFI	401
Callithrix_jacchus	SAIREEELMPNIEKMLECSTDISLFDALMMLEMOLVEQLEETISMFERNIVNLVGLFI	395
Xenopus_tropicalis	NELSSGNQDFLDLKISQYIDDINKLLSLMTLELQLVDQLEEIKEYERNVSDMVSAFL	395
Rhinatrema_bivittatum	SEIQHISDTETIAVKIEQIGTEISHLKETILMTLEIQLVQDQLEEIHKDFERNISDMASTFI	395
Latimeria_chalumnae	HELQNIIDNFIEAKIQOYCQEINQLSDDILSKELQLVDQLEEVIKDFERNISDIVAGFI	308
Pavo_muticus	DEIHHASSHDTAESMRAEYNEDILQLSETILMTLEMOMVDQLEELIKEFERNIAVIASFTI	394
Pavo_cristatus	DEIHHASSHDTAESMRAEYNEDILQLSETILMTLEMOMVDQLEELIKEFERNIAVIASFTI	394
Gallus_gallus	DEIHHASSHDTAESMRAEYNEDILQLSETILMTLEMOMVDQLEELIKEFERNIAVITSTFI	394
Chelonia_mydas	DVIQNMSNFEIADFKLVKYNEDISQLSDILMTLEMOMVDQLEEIHKDFERNIAQVSTFI	395
370.....380.....390.....400.....410.....420	

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Mus_musculus	ENVQSLIAQCRDLENHHHEKLLLEIAINTLEKILKGEMDEDLPDDVRALFVDKDTIVNAVG	455
Rattus_norvegicus	ENVQSLIAQCRDLENHHHEKLLLEIAINTLEKILKGEMDEDLPDDVRALFVDKDTIVNAVG	455
Canis_lupus_familiaris	ENVQSLMAQCRDLENHHHEKLLLEISINTLEKILKGDVDEDLPDDLRLPLFVDKDTIFNAVG	455
Equus_caballus	ENVQSLMAQCRDLENHHHEKLLLEISINTLEKIAKGFEDEDLPDDVRSFLFVDKDTIVNAVG	455
Bos_taurus	ENVQSLMAQCRDLENHHHEKLLLEIAINILEKIVKGEMDEDLPDDVRSFLFVDKDTIVNAVG	454
Homo_sapiens	ENVQSLMAQCRDLENHHHEKLLLEISISTLEKIVEGDLDEDLPNDLRLALFVDKDTIVNAVG	455
Pan_troglodytes	ENVQSLMAQCRDLENHHHEKLLLEISISTLEKIVEGDLGEDLPNDLRLALFVDKDTIVNAVG	474
Macaca_mulatta	ENVQSLMAQCRDLENHHHEKLLLEISISTLEKIVKGDLEDLPDDLRLALFVDKDTIVNAVG	461
Callithrix_jacchus	ENVQSLMAQCRDLENHHHEKLLLEISISTLEKAVKGDLEDLSDVRALFVDKDTIVNAVG	455
Xenopus_tropicalis	ETVQGLMAQVRDLENHHHEKLLLEISINLLEKVLKGMEDDEITDDIRMFVVDKDTIVNAVS	455
Rhinatrema_bivittatum	ETVQGYMAQIRDFENHHNEKLLLEIAISTLEKIGKGIFDEDIPDDVRMLFIDKDTIVNAVA	455
Latimeria_chalumnae	ENVQGFVQCRDLENHHHEKLLLEICVHTLDKVVKTGFDEDIPESLRKLFVDKDTLVNAVG	368
Pavo_muticus	DSVKGMMTQCRDLENHHHEKLLLEISISTLEKSLKNELDEELPDDVREFLVDKTTIVNMAN	454
Pavo_cristatus	DSVKGMMTQCRDLENHHHEKLLLEISISTLEKSLKNELDEELPDDVREFLVDKTTIVNMAN	454
Gallus_gallus	ENVKGMMTQCRDLENRHHEKLLLEISISALEKSLKNELDEELPDDVREFLVDKNTIVNMVN	454
Chelonia_mydas	ENVQGMMAQCRDLENHHHEKLLLEIAINTLEKIVKSEFDEEMPPDARLLFVDKDTIVNAVN	455
430.....440.....450.....460.....470.....480	

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Mus_musculus	ASHDIHLLKIDNREDELVTGINSWCAHLVDKIHKDEIMRNRRKRVKEINQFVDHMQSELDN	515
Rattus_norvegicus	ASHDIHLLKIDNREDELVTGVNSWCAHLVDKIHKDEIMRNRRKRVKEINQFVDHMQSELDN	515
Canis_lupus_familiaris	ASHDIHLLKIDNREDELVTRANSWCTHLVDTIHKNEIMRNRRRVKEINQYIDHMQNELDS	515
Equus_caballus	ASHDIHLLKIDNREDELVTRINSWCTHLVDKIHKDEITRNHKRVKEINQYIDHMQNELDN	515
Bos_taurus	ASHDIHLLKIDNREDELVTRINSWYTHLLDKIHKDEIMRNRRKRVKEINQYVDHVSSELDS	514
Homo_sapiens	ASHDIHLLKIDNREDELVTRINSWCTRLIDRIHKDEIMRNRRKRVKEINQYIDHMQSELDN	515
Pan_troglodytes	ASHDIHLLKIDNREDELVTRINSWCTRLIDKIHKDEIMRNRRKRVKEINQYIDHMQSELDN	534
Macaca_mulatta	ASHDIHLLKIDNREDELVTRINSWCTRLVDKIHKDEIMRNRRKRVKEINQYIDHMQSELDN	521
Callithrix_jacchus	ASHDIHLLKIDNREDELVTRINSWCTRLVDKIHKDEIMRNRRKRVKEISLYIDHMKSELDN	515
Xenopus_tropicalis	ASHDIHLLKIDNREDELVTKMNTWANNLIQVKQDEIQNRNRILEITTYIDHLRDELDN	515
Rhinatrema_bivittatum	ASHDIHLLKIDNLEDLITKINWPNLLLPKIQRNEAARNRKRVRLEINSFIDHLIDELDD	515
Latimeria_chalumnae	ASHDLHLQKIDNKEDEIVTRANTWLSLIEKIHSSSEVERNRRKRVSEVHNYIGHLODELDS	428
Pavo_muticus	KSHNIHLLKISMRECDILLNMYHWEASVKEKALQNEINRNRRNRKRVKEIFOYIDDLQEQOLDN	514
Pavo_cristatus	KSHNIHLLKISMRECDILLNMYHWEASVKEKALQNEINRNRRNRKRVKEIFOYIDDLQEQOLDN	514
Gallus_gallus	KSHNIHLLKISMRECDILLNMYHWEASVKEKALQNEIDNRNRRIKEIFOYIDDLQEQOLDN	514
Chelonia_mydas	ASHDIHLLKIDNREDDIITKANWSVIEVEVHKNEISRNRNRVREINQYIDHLQEQELDN	515
490.....500.....510.....520.....530.....540	

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Mus_musculus	LECGDIID-----	523
Rattus_norvegicus	LECGDIID-----	523
Canis_lupus_familiaris	LECSVID-----	523
Equus_caballus	LECSDLID-----	523
Bos_taurus	LECGDLLD-----	522
Homo_sapiens	LECGDILD-----	523
Pan_troglodytes	LECGDILD-----	542
Macaca_mulatta	LEYSDILD-----	529
Callithrix_jacchus	LEYSDILD-----	523
Xenopus_tropicalis	LELHEQM-----	522
Rhinatrema_bivittatum	MEIARADLIATNGLSLSRTRCFFIPARPGRDSGQVLCVCSTAKKCEGLTPVOQLAGTLL	574
Latimeria_chalumnae	LDLQETV-----	435
Pavo_muticus	TPIPEPTE-----	522
Pavo_cristatus	IPIPEPTE-----	522
Gallus_gallus	TQIPDPTE-----	522
Chelonia_mydas	MESLEQME-----	523
550.....560.....570.....580.....590.....	