

Cedric Notredame
CPU TIME:338 sec.
SCORE=62

*
BAD AVG GOOD
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Homo_sapie	:	63
Pan_troglo	:	64
Macaca_mul	:	64
Mus_muscul	:	61
Rattus_nor	:	62
Cavia_porc	:	63
Cynops_pyr	:	62
Danio_reri	:	62
Oreochromi	:	61
cons	:	62

Homo_sapie	1	--MPPLLAPL--LCLALLP-ALA-----ARG-PRCSQPGETCLNGG	35
Pan_troglo	1	--MPPLLAPL--LCLALLP-ALA-----ARG-PRCSQPGETCLNGG	35
Macaca_mul	1	-----G-PRCSQPGETCLNGG	15
Mus_muscul	1	--MPRLLTPL--LCLTLLP-ALA-----ARG-LRCSQPSGTCLNGG	35
Rattus_nor	1	--MPRLLAPL--LCLTLLP-ALA-----ARG-LRCSQPSGTCLNGG	35
Cavia_porc	1	--MGRSDSLAGALSAGGAA-GSAAVAFSHEGGSCLRCSQP-GTCENGG	44
Cynops_pyr	1	MRIPGFAAL-----LLTLP-SLA-----P-A-LRCTLQSEKCMNGG	33
Danio_reri	1	--MNRFLVKLT-L-LTAASLATV-----AQG-QRC---SEYCQNGG	33
Oreochromi	1	--MYRFFVKL-----TFLIP-AIA-I-----AQG-LKCSLPTEACLNGG	34
cons	1	. : * * * *	48

Homo_sapie	36	KCEAA-NGTEACVCGGA-FVGPRCQDPNPCLSTPCKNAGTCHVVDRRG	81
Pan_troglo	36	KCEAA-NGTEACVCGGA-FVGPRCQDPNPCLSTPCKNAGTCHVVDRRG	81
Macaca_mul	16	KCEAA-NGTEACVCGGA-FVGPRCQDPNPCLSTPCKNAGTCHVVDRGG	61
Mus_muscul	36	RCEVA-NGTEACVCSGA-FVGQRCQDSNPCLSTPCKNAGTCHVVDHGG	81
Rattus_nor	36	RCEVA-NGTEACVCSGA-FVGQRCQDPSPCSTPCKNAGTCYVVDHGG	81
Cavia_porc	45	RCEVL-NGTEACICSGD-FVGQRCQDPNPCLSAPCKNAGTCHMVDQGG	90
Cynops_pyr	34	KCEALPNGTSVCTCSSSAFVGERCQYSNPCLSSPCRNAGTCQVDIRGN	81
Danio_reri	34	ICEYKPSGEASCRCPAD-FVGAQCQFPNPCNPSPCRNAGVCRPQMQGN	80
Oreochromi	35	RCEATPNGNGECKCPSD-YVGSRCQYPNPCCSPSPCRNGGECRAVSHGN	81
cons	49	. * * . * * . : * * : * * . . * * . : * * : * * * . : .	96

Homo_sapie	82	VADYACSCALGFSGPLCLTPLDNACLTNPCRNNGGTCDLL-TLTEYKCR	128
Pan_troglo	82	VADYACSCPLGFSGPLCLTPLDNACLTNPCRNNGGTCDLL-TLTEYKCR	128
Macaca_mul	62	MADYACSCPLGFSGPLCLTPLDNACLTNPCRNNGGTCDLL-TLTEYKCR	108
Mus_muscul	82	TVDYACSCPLGFSGPLCLTPLDNACLANPCRNNGGTCDLL-TLTEYKCR	128
Rattus_nor	82	IVDYACSCPLGFSGPLCLTPLANACLANPCRNNGGTCDLL-TLTEYKCR	128
Cavia_porc	91	TVDYTCSCSLGFSGPLCLTPLDNACLSGPCRNNGGTCDLL-TLTEYKCR	137
Cynops_pyr	82	TVDYSCICRLGYSKDLCLTPMDNVCLNNPCRNNGGTCCELLS SLTQHKCR	129
Danio_reri	81	EVGVKCDCVLGFSDDLCLTPVNHACMNSPCRNNGGTCSSL-TLDTFTCR	127
Oreochromi	82	TDFDFRCVCRLLGFTDRLCLTPTNHACMSSPCRNNGGTCHLT-ALNAYRCD	128
cons	97	. * * * * : : . * * * * : . * : . * * * * * * * * : * . *	144

Homo_sapie	129	CPPGWSGKSCQQADPCASNPCANGGQCLPFEASYICHCPPSFHGPTCR	176
Pan_troglo	129	CPPGWSGKSCQQADPCASNPCANGGQCLPFEASYICHCPPSFHGPTCR	176
Macaca_mul	109	CPPGWSGKSCQQADPCASNPCANGGQCLPFEASYICHCPPSFHGPTCR	156
Mus_muscul	129	CPPGWSGKSCQQADPCASNPCANGGQCLPFESSYICRCPPGFHGPTCR	176
Rattus_nor	129	CPPGWSGKSCQQADPCASNPCANGGQCLPFESSYICGCPPGFHGPTCR	176
Cavia_porc	138	CPPGWSGKSCQQADPCASNPCANGGHC LPFESTYICGCRPGFHGSTCR	185
Cynops_pyr	130	CPPGWTGETCQQADPCASNPCGNGGQCVPFEAQYVCKCPPAYHGPTCK	177
Danio_reri	128	CQPGWSGKTCQLADPCASNPCANGGQCSAFESHYICTCPPNFHGQTCK	175
Oreochromi	129	CPPGWSGKTCQAANPCASNPCANGGLCSALESTYICKCPRAFTGQTCK	176

cons 145 * ***:**:* **:* ** * .*** * .:** *:* * : * **:

Homo_sapie	177	QDVNECGQ--KPGLCRHGGTC HNEVGSYRCVCRATHTGPN CERPYVPC	222
Pan_troglo	177	QDVNECGQ--KPGLCRHGGTC HNEVGSYRCVCRATHTGPN CERPYVPC	222
Macaca_mul	157	QDVNECGQ--NPGLCRHGGTC HTEVGSYRCVCRATHTGPN CERPYVPC	202
Mus_muscul	177	QDVNECSQ--NPGLCRHGGTC HNEIGSYRCACRATHTGPHCEL PYVPC	222
Rattus_nor	177	QDVNECSQ--NPGLCRHGGTC HNEIGSYRCACRATHTGPHCEL PYVPC	222
Cavia_porc	186	QDVNECSQ--TPGLCRNGGTC HNEVGSYRCACRPTHMGSNCEL PYVPC	231
Cynops_pyr	178	LDINETS--VP--CKNGGTC VNEVGSYQCTCRPEYTG RNCENLYVPC	221
Danio_reri	176	QDVNECAVSPSP--CRNGGTC INEVGSYLCRCPPEYTGPHCQR LYLQPC	221
Oreochromi	177	QDVNECAQTPSP--CLNGGVC VNEVGSYHCRCPQEYTG QHCENPYLPC	222

cons 193 *:* ** * * : ** * .:* ** * * : * : ** * * **

Homo_sapie	223	SPSPCQNGGTCRPTGDVTHECACLPGF TQNC EENI DDCCPGN CKNGG	270
Pan_troglo	223	SPSPCQNGGTCRPTGDVTHECACLPGF TQNC EENI DDCCPGN CKNGG	270
Macaca_mul	203	SPSPCQNGGTCRPTGDVTHECACLPGF TQNC EENI DDCCPGN CKNGG	250
Mus_muscul	223	SPSPCQNGGTCRPTGDTTHECACLPGF AGQNC EENV DDCCPGN CKNGG	270
Rattus_nor	223	SPSPCQNGGTCRPTGDTTHECACLPGF AGQNC EENV DDCCPGN CKNGG	270
Cavia_porc	232	SPSPCQNGGTCRPTGETTHECACLPGF TQNC EDNV DDCCPGNS CRNGG	279
Cynops_pyr	222	YSPSPCQNGGTCRQTGDTTYE CACLPGFDSQNC EVNI DDCCPGNT CKNGG	269
Danio_reri	222	LPSPCRSGGTCVQTS DTTHT CSCLPGFTGQTCEHNV DDCTQHAC ENGG	269
Oreochromi	223	SPSPCQNGGTCVQKGD TAYDCSCLPGFTGHNCEVNI DDCCPGHN CQNGG	270

cons 241 * ***: .*** * .:**:* ** * * : ** * . : * .***

Homo_sapie	271	ACVDGVNTYNCRCPP EWTGQYCTEDVDECQLMPNACQNGG TCHNTHGG	318
Pan_troglo	271	ACVDGVNTYNCRCPP EWTGQYCTEDVDECQLMPNACQNGG TCHNTHGG	318
Macaca_mul	251	ACVDGVNTYNCRCPP EWTGQYCTEDVDECQLMPNACQNGG TCHNTHGG	298
Mus_muscul	271	ACVDGVNTYNCRCPP EWTGQYCTEDVDECQLMPNACQNGG TCHNTHGG	318
Rattus_nor	271	ACVDGVNTYNCRCPP EWTGQYCTEDVDECQLMPNACQNA GTCHNSHGG	318
Cavia_porc	280	ACVDGVNTYNCRCPP EWTGQFCTEDVDECQLMPNACQNGG TCHNTQGG	327
Cynops_pyr	270	TCVDGVNTYNCQCPPEWTGQYCTEDVDECQLMPNACQNGG TCHNNHGG	317
Danio_reri	270	PCIDGINTYNC HCDKHWTGQYCTEDVDEC ELS PNA CQNGG TCHNTIGG	317
Oreochromi	271	VCVDGVNTYNCRCPPHYTGQYCTENVDEC E LMPNACQNGG TCHDTHGG	318

cons 289 *:* **:* **:* **:* ** * ** * ** * ** * ** * ** * **

Homo_sapie	319	YNCVCVNGWTGEDCSENIDDCASAACFHGATCHDRVASFYCECPHGRT	366
Pan_troglo	319	YNCVCVNGWTGEDCSENIDDCASAACFHGATCHDRVASFYCECPHGRT	366
Macaca_mul	299	YNCVCVNGWTGEDCSENIDDCASAACFHGATCHDRVASFYCECPHGRT	346
Mus_muscul	319	YNCVCVNGWTGEDCSENIDDCASAACFQGATCHDRVASFYCECPHGRT	366
Rattus_nor	319	YNCVCVNGWTGEDCSDNIDDCASAACFQGATCHDRVASFYCECPHGRT	366
Cavia_porc	328	YNCVCVNGWTGEDCSENIDDCASAACFNGATCHDRVASFYCECPHGRT	375
Cynops_pyr	318	YNCVCVNGWTGEDCSENIDDCANAAACHSGATCHDRVASFYCECPHGRT	365
Danio_reri	318	FHCVCVNGWTGDDCSENIDDCASAACSHGATCHDRVASFFCECPHGRT	365
Oreochromi	319	YHCVCVNGWTGDDCSENIDDCASAACHHGATCHDRVASFFCECPHGRT	366

cons	337	: :*****:***:***** .*** ********:*****	384
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Homo_sapie	367	GLLCHLNDAICISNPCNEGSNCDTNPVNGKAICTCPSGYTGPAACSQDVD	414
Pan_troglo	367	GLLCHLNDAICISNPCNEGSNCDTNPVNGKAICTCPSGYTGPAACSQDVD	414
Macaca_mul	347	GLLCHLNDAICISNPCNEGSNCDTNPVNGKAICTCPSGYTGPAACSQDVD	394
Mus_muscul	367	GLLCHLNDAICISNPCNEGSNCDTNPVNGKAICTCPSGYTGPAACSQDVD	414
Rattus_nor	367	GLLCHLNDAICISNPCNEGSNCDTNPVNGKAICTCPRGYTGPAACSQDVD	414
Cavia_porc	376	GLLCHLNDAICISNPCNEGSNCDTNPVNGKAICTCPSGYTGPAACSQDVD	423
Cynops_pyr	366	GLLCHLNDAICISSPCNEGANC DTNPVNGKAICTCPSGYMGPACIQDVD	413
Danio_reri	366	GLLCHLDDAICISNPCQKGSNCDTNPVSGKAICTCPPGYTGSAACNLDID	413
Oreochromi	367	GLLCHLDDAICISNPCQKGSNCDTNPVNGKAICTCPPGYTGSAACNLDID	414

cons	385	*****:***** .**:::*** ***** .***** ***** ** * .** *:*	432
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Homo_sapie	415	ECSLGANPCEHAGKCIINTLGSFECQCLQGYTGPRCEIDVNECVSNPCQ	462
Pan_troglo	415	ECSLGANPCEHAGKCIINTLGSFECQCLQGYTGPRCEIDVNECVSNPCQ	462
Macaca_mul	395	ECSLGANPCEHAGKCIINTLGSFECQCLQGYTGPRCEIDVNECVSNPCQ	442
Mus_muscul	415	ECALGANPCEHAGKCLNLTLSFECQCLQGYTGPRCEIDVNECISNPCQ	462
Rattus_nor	415	ECALGANPCEHAGKCLNLTLSFECQCLQGYTGPRCEIDVNECISNPCQ	462
Cavia_porc	424	ECALGANPCEHAGKCIINTLGSFECQCLQGYSGPRCEIDVNECISNPCQ	471
Cynops_pyr	414	ECSLGANPCEHAGRC LNLTLSFQCQCS PGYTGPRCEMDVNECLSNPCQ	461
Danio_reri	414	ECSLGANPCEHGGRC LNTKGSFQCKCLQGYEGPRCEMDVNECKSNPCQ	461
Oreochromi	415	ECSLGANPCEHGGRC LNTKGSFQCKCLQGYEGPRCEMDVNECMSNPCQ	462

cons	433	** : ** ***** .** : ** ** : ** * ** *****:***** ***** :	480
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Homo_sapie	463	NDATCLDQIGEFQCIICMPGYEGVHCEVNTDECASSPCLHNGRCLDKIN	510
Pan_troglo	463	NDATCLDQIGEFQCIICMPGYEGVHCEVNTDECASSPCLHNGRCLDKIN	510
Macaca_mul	443	NDATCLDQIGEFQCIICMPGYEGVHCEVNTDECASSPCLHNGRCLDKIN	490
Mus_muscul	463	NDATCLDQIGEFQCIICMPGYEGVYCEINTDECASSPCLHNGHCMDKIN	510
Rattus_nor	463	NDATCLDQIGEFQCIICMPGYEGVYCEINTDECASSPCLHNGRCVDKIN	510
Cavia_porc	472	NDATCLDQIGEFQCIICMPGYEGLYCEVNTDECASSPCLHNGRCLDRVS	519
Cynops_pyr	462	NDATCLDQIGEFHCICMPGYEGVFCQTNTDECASSPCLHNGRCIDKIN	509
Danio_reri	462	NDATCLDQIGGFHCICMPGYEGVFCQINSDDCASQPCLN-GKCIDKIN	508
Oreochromi	463	NDATCLDQIGGFHCICMPGYEGVFCHINTDECASQPCLNNGKCIDKIN	510

cons	481	***** * :***** : . * . * : ** * . ** : * : * : * : .	528
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Homo_sapie	511	EFQCECPTGFTGHLCQYDVDECASTPCKNGAKCLDGPNTYT	CVCTEGY	558
Pan_troglo	511	EFQCECPTGFTGHLCQYDVDECASTPCKNGAKCLDGHNTYT	CVCTEGY	558
Macaca_mul	491	EFQCECPTGFTGHLCQYDVDECASTPCKNGAKCLDGPNTYT	CVCTEGY	538
Mus_muscul	511	EFQCQCPKGFNGHLCQYDVDECASTPCKNGAKCLDGPNTYT	CVCTEGY	558
Rattus_nor	511	EFLCQCPKGFSGHLCQYDVDECASTPCKNGAKCLDGPNTYT	CVCTEGY	558
Cavia_porc	520	EFLCECPTGFSGHLCQYDVDECASTPCRNGAKCLDGPNTYS	CVCTEGY	567
Cynops_pyr	510	EFHCECPIGFNGPLCQYDIDECASTPCKNGAKCLDGANSYT	CDCAEGY	557
Danio_reri	509	SFHCECPKGFSGSLCQVDVDECASTPCKNGAKCTDGPNKYT	CECTPGF	556
Oreochromi	511	SFHCECPKGFSGSLCQVDVDECASTPCKNGAKCTDGPNKYT	CECAEGY	558

cons 529 . * * : * * * * . * * * * * : * * * * * : * * * * * * * * * * * . * : * * * : * :

Homo_sapie	559	TGTHCEVDIDECDDPDPCHYGSCKDGVATFTCLCRPGYT	GHHHCETNINE	606
Pan_troglo	559	TGTHCEVDIDECDDPDPCHYGSCKDGVATFTCLCRPGYT	GHHHCETNINE	606
Macaca_mul	539	TGMHCEVDIDECDDPDPCHYGSCKDGVATFTCLCRPGYT	GHHHCETNINE	586
Mus_muscul	559	TGTHCEVDIDECDDPDPCHYGSCKDGVATFTCLCQPGYT	GHHHCETNINE	606
Rattus_nor	559	TGTHCEVDIDECDDPDPCHYGLCKDGVATFTCLCQPGYT	GHHHCETNINE	606
Cavia_porc	568	TGIHCEVDINECDPDPCHYGSCKDGVAAFTCLCQPGYT	GHHHCETNINE	615
Cynops_pyr	558	SGFHCETDIDECDDPDPCHYGTCSGDIAGFTCHCEPGYT	GHRCEIDVNE	605
Danio_reri	557	SGIHCELDINECASSPCHYGVCRDGVASFCTDCRPGYT	GRLCETNINE	604
Oreochromi	559	TGQHCEIDINECYSNPCHYGTCDRGLASFCTCQCRPGYT	GRLCETNINE	606

cons 577 : * * * * * * : * * * * * . * * * * * * * * * * * : * * * : * * * :

Homo_sapie	607	CSSQPCRHHGGTCQDRDNAYLCFCLKGTTGPNCEINLDDC	CASSPCDSGT	654
Pan_troglo	607	CSSQPCRHHGGTCQDRDNAYLCFCLKGTTGPNCEINLDDC	CASSPCDSGT	654
Macaca_mul	587	CSSQPCRHHGGTCQDRDNAYLCFCLKGTTGPNCEINLDDC	CASSPCDSGT	634
Mus_muscul	607	CHSQPCRHHGGTCQDRDNSYLCCLCLKGTTGPNCEINLDDC	CASNPCDSGT	654
Rattus_nor	607	CHSQPCRHHGGTCQDRDNYYLCCLCLKGTTGPNCEINLDDC	CASNPCDSGT	654
Cavia_porc	616	CASQPCRHHGGTCQDRDNAYLCCLCLKGTTGPNCEINLDDC	CASSPCDAGT	663
Cynops_pyr	606	CQSMPCQNGGECQDRKNSYSRCRCPKGTGTVNCEINMDDC	CASSPCDYGK	653
Danio_reri	605	CLSQPCRNGGTCQDRENAYICTCPKGTGTVNCEINIDDC	CRKPCDYGK	652
Oreochromi	607	CLSQPCKNGGIQDKENAYICSQPQGTAGFNCEVNLDDC	CKSKPCDYGK	654

cons 625 * * * * * : * * * * * * * * * * * : * * * * * * * * * * * : * * * * * * * * * * * . * * * * * :

Homo_sapie	655	CLDKIDGYECACEPGYTGSMCNINIDECAGNPCHNGGTC	EDGINGFTC	702
Pan_troglo	655	CLDKIDGYECACEPGYTGSMCNINIDECVGNPCHNGGTC	EDGINGFTC	702
Macaca_mul	635	CLDKIDGYECACEPGYTGSMCNINIDECAGNPCHNGGTC	QDGINGFTC	682
Mus_muscul	655	CLDKIDGYECACEPGYTGSMCNVNIDECAGSPCHNGGTC	EDGIAGFTC	702
Rattus_nor	655	CLDKIDGYECACEPGYTGSMCNVNIDECAGSPCHNGGTC	EDGIAGFTC	702
Cavia_porc	664	CLDKIDGYECACEPGYTGSMCNINIDECAGSPCHNGGTC	EDGINSFTC	711
Cynops_pyr	654	CIDRINGYECACEPGYTGIMCNINIDECDSNPCHNGGTC	CKDGINGFTC	701
Danio_reri	653	CIDKINGYECVCEPGYSGSMCNINIDDCALNPCHNGGTC	CIDGVNSFTC	700
Oreochromi	655	CIDKINGYECACEPGYTGAMCNINIDDCAINPCHNGGTC	CVDGINSFTC	702

cons 673 * : * * * * * : * * * * * * * * * * * : * * * * * * * * * * * . * * * * * * * * * * * : * * * * * :

Homo_sapie	703	RCPEGYHDPTCLSEVNECNSNPCVHGA	CRDSLNGYKDCDPGWSGTNC	750
Pan_troglo	703	RCPEGYHDPTCLSEVNECNSNPCVHGA	CRDSLNGYKDCDPGWSGTNC	750
Macaca_mul	683	RCPEGYHDPTCLSEVNECNSNPCVHGA	CRDSLNGYKDCDPGWSGTNC	730
Mus_muscul	703	RCPEGYHDPTCLSEVNECNSNPCIHGA	CRDGLNGYKDCAPGWSGTNC	750
Rattus_nor	703	RCPEGYHDPTCLSEVNECNSNPCIHGA	CRDGLNGYKDCAPGWSGTNC	750
Cavia_porc	712	RCPEGYHDPTCLSEVNECSSNPCIHGS	CQDSLNGYWCDCDSGWSGTNC	759
Cynops_pyr	702	VCPQGYQDPTCLSEVNECNSNPCIHGR	CHDGINGYRCDCDPGWSGTNC	749
Danio_reri	701	LCPDGFRDATCLSQHNECSSNPCIHGS	CLDQINSYRCVCEAGWMGRNC	748
Oreochromi	703	LCPEGYNDATCLSEVDECSSNPCIHGR	CQDLLNGYKCTCDSGWSGQNC	750

cons	721	**:::.*.*****: **.******:**	* * :*. * * * .** * **	768
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Homo_sapie	751	DINNNECESNPCVNGGTCKDMTSGYVCTCREGFSGPNCQTNINECASN	798
Pan_troglo	751	DINNNECESNPCVNGGTCKDMTSGYVCTCREGFSGPNCQTNINECASN	798
Macaca_mul	731	DINNNECESNPCVNGGTCKDMTSGYVCTCREGFSGPNCQTNINECASN	778
Mus_muscul	751	DINNNECESNPCVNGGTCKDMTSGYVCTCREGFSGPNCQTNINECASN	798
Rattus_nor	751	DINNNECESNPCVNGGTCKDMTSGYVCTCREGFSGPNCQTNINECASN	798
Cavia_porc	760	DINNNECESNPCVNGGTCDMTSGYVCTCREGFSGPNCQTNINECASN	807
Cynops_pyr	750	DINNNECESNPCMNGGTCKDMTSGYLCACRDGFSGPNCQTNINECASN	797
Danio_reri	749	DININECLSNPCVNGGTCKDMTSGYLCACRAGFSGPNCQTNINECASN	796
Oreochromi	751	DINNNECESNPCMNGGTCKDMTSGYHCTCRVGFSGPNCQTNINECASN	798

cons	769	*** ** * ** : ** * ** : * * * * * *	* : ** * : * * * * * * * * * * * *	816
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Homo_sapie	799	PCLNQGTCIDDVAGYKCNCLLPYTGATCEVVLAPCAPSPCRNGGECRQ	846
Pan_troglo	799	PCLNQGTCIDDVAGYKCNCLLPYTGDTCEVVLAPCAPSPCRNGGECRQ	846
Macaca_mul	779	PCLNQGTCIDDVAGYKCNCLLPYTGATCEVVLAPCAPSPCRNGGECRE	826
Mus_muscul	799	PCLNQGTCIDDVAGYKCNCLLPYTGATCEVVLAPCATSPCKNSGVCKE	846
Rattus_nor	799	PCLNQGTCIDDVAGYKCNCLLPYTGATCEVVLAPCATSPCKNSGVCKE	846
Cavia_porc	808	PCLNQGTCIDDVAGYKCNCLLPYTGTTCEVVLAPCAPSPCKNSGVCRE	855
Cynops_pyr	798	PCLNQGTCIDDVAGYKCNCLLPYTGPTCGEVLAPCSDNPCKNGGECGE	845
Danio_reri	797	PCLNQGSCIDDVAGFKCNCLLPYTGEVCENVLAPCSPRPCKNGGVCRE	844
Oreochromi	799	PCLNQGTCIDDVAGYKCNCLLPYTGENCETLLAPCSPRPCKNGGICKE	846

cons	817	*** ** : * * * * * * * * : * * * * * * *	* : * * * * : * * : * . * * :	864
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Homo_sapie	847	SEDYESFSCVCPTGWQGQTCEVDINECVLSPCRHGASCQNTHGGRCH	894
Pan_troglo	847	SEDYESFSCVCPTGWQGQTCEVDINECVLSPCRHGASCQNTHGGRCH	894
Macaca_mul	827	SEDYESFSCVCPTGWQGQTCEVDINECVVSPCRHGASCQNTHGGRCH	874
Mus_muscul	847	SEDYESFSCVCPTGWQGQTCEVDINECVKSPCRHGASCQNTNGSYRCL	894
Rattus_nor	847	SEDYESFSCVCPTGWQGQTCEIDINECVKSPCRHGASCQNTNGSYRCL	894
Cavia_porc	856	SEDYESFSCICPSGWQGQTCEVDINECVKSPCRHGASCQNTNGDYRCH	903
Cynops_pyr	846	SEDYESFSCSCPCAGWQGQTCEIDINECVKSPCRNGAVCQNTDGSYRCN	893
Danio_reri	845	SEDFQSFSCNCPCAGWQGQTCEVDINECVRNPCNTGGVCENLRGGFQCR	892
Oreochromi	847	SEDYQSFSCICPEGWQGQTCEIDINECVKSPCRNGALCLNTMGGYQCK	894

cons	865	*** : * * * * * * * * * * : * * * * * * *	. ** : * . * * * * . : : *	912
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Homo_sapie	895	CQAGYSGRNCETDIDDCRPNPCHNGGSCTDGINTAFCDCLPGFRGTFC	942
Pan_troglo	895	CQAGYSGRNCETDIDDCRPNPCHNGGSCTDGINTAFCECLPGFRGTFC	942
Macaca_mul	875	CQAGYSGRNCETDIDDCRPNPCHNGGSCTDGINTAFCDCLPGFQGTFCC	922
Mus_muscul	895	CQAGYTGRNCESDIDDCRPNPCHNGGSCTDGINTAFCDCLPGFQGAFCC	942
Rattus_nor	895	CQAGYTGRNCESDIDDCRPNPCHNGGSCTDGVNAAFCDCLPGFQGAFCC	942
Cavia_porc	904	CQAGYTGRDCETDIDDVDCRPNPCHNGGSCTDGVNTAFCDCLPGFQGAFCC	951
Cynops_pyr	894	CKAGYSGRHCETDIDDCRPNPCHSNGGSCTDGINAFFCNCLAGFRGPKCC	941
Danio_reri	893	CNPGFTGALCENDIDDCRPNPCHSNGGVCQDRVNGFVVCVCLAGFRGERCC	940
Oreochromi	895	CQPGYSGQKCETDIDDCRPNPCHSNGGLCRDGINSTFTCTCPPGFRGGRC	942

cons 913 *:.*:.* **.*:*** ***** .** * * : * * * .**:* * 960

Homo_sapie	943	EEDINECASDPCRNGANCTDCVDSYCTCTCPAGFSGIHCENNTPDCTES	990
Pan_troglo	943	EEDINECASDPCRNGANCTDCVDSYCTCTCPAGFSGIHCENNTPDCTES	990
Macaca_mul	923	EEDINECASDPCRNGANCTDCVDSYCTCTCPAGFSGIHCENNTPDCTES	970
Mus_muscul	943	EEDINECASNPCQNGANCTDCVDSYCTCTCPVGFNGIHCENNTPDCTES	990
Rattus_nor	943	EEDINECATNPCQNGANCTDCVDSYCTCTCPTGFNGIHCENNTPDCTES	990
Cavia_porc	952	EEDINECASSPCRNGANCTDCVDSYCTCTCPAGFNGIHCENNTPDCTES	999
Cynops_pyr	942	EEDINECASNPCCKNGANCTDCVNSYCTCTCPAGFSGIHCENNTPDCTES	989
Danio_reri	941	AEDIDECVSAPCRNGGNCTDCVNSYCTCSCPAGFSGINCEINTPDCTES	988
Oreochromi	943	EQDINECESNPCRNGANCTDCVNSYCTCTCPPGFSGINCEINTNDCTDS	990

cons 961 :***:** : **:**.*****:*****:** **.*:** ** ** **:** 1008

Homo_sapie	991	SCFNNGGTCVDGINSFTCLCPPGFTGSYCQHDVNECDSQPCLHGGTCQD	1038
Pan_troglo	991	SCFNNGGTCVDGINSFTCLCPPGFTGSYCQHDVNECDSQPCLHGGTCQD	1038
Macaca_mul	971	SCFNNGGTCVDGINSFTCLCPPGFTGSYCQHDVNECDSQPCLHGGTCQD	1018
Mus_muscul	991	SCFNNGGTCVDGINSFTCLCPPGFTGSYCQYDVNECDSRPCLHGGTCQD	1038
Rattus_nor	991	SCFNNGGTCVDGINSFTCLCPPGFTGSYCQYDVNECDSRPCLHGGTCQD	1038
Cavia_porc	1000	SCFNNGGTCVDGINSFTCLCPPGFTGSYCQHDINECDSRPCLNNGGTCQD	1047
Cynops_pyr	990	SCFNNGGTCIDGINFTFCRCPAGFIGSYCEHDVNECDSKPCLNNGGTCQD	1037
Danio_reri	989	SCFNNGGTCVDGISSFSCVCLPGFTGNYCQHDVNECDSRPPCQNGGSCQD	1036
Oreochromi	991	SCFNNGGTCVDGINFTFTCLCLPGFTGSYCQYDINECDSKPCLNNGGTCQD	1038

cons 1009 *****:***.**:.* * .** * .**:*:***:**:** **:** 1056

Homo_sapie	1039	GCGSYRCTCPQGYTGPNCQNLVHWCDSSPCKNGGKCWQTHYRCECP	1086
Pan_troglo	1039	GCGSYRCTCPQGYTGPNCQNLVHWCDSSPCKNGGKCWQTHYRCECP	1086
Macaca_mul	1019	GCGSYRCTCPQGYTGPNCQNLVHWCDSSPCKNGGKCWQTHYRCECP	1066
Mus_muscul	1039	SYGTYKCTCPQGYTGLNCQNLVHWCDSSPCKNGGRCWQTNTQYHCECR	1086
Rattus_nor	1039	SYGTYKCTCPQGYTGLNCQNLVHWCDSSPCKNGGKCWQTNTQYHCECR	1086
Cavia_porc	1048	SYGTYKCTCPQGYTGLNCQNLVHWCDSSPCKNGGQCWQTSTLYRCECH	1095
Cynops_pyr	1038	SYGTYKCTCPQGYTGMNCQNLVHWCDSSPCKHGGKCWQTNNLYRCECN	1085
Danio_reri	1037	GYGTYKCTCPHGYTGLNCQSLVHWCDSSPCKNGGSCWQQGASFTCQCA	1084
Oreochromi	1039	SYGTYKCTCPHGYTGINCQNLVHWCDSSPCKNGGLCWQQGASYTCQCQ	1086

cons 1057 . **:**:**:** **.*:**:**:**:**:** ** ** **:** 1104

Homo_sapie	1087	SGWTGLYCDVPSVSC	EVA	AQR	QGV	DVAR	LCQH	GGLC	VDAG	NTHH	CRCQ	1134
Pan_troglo	1087	SGWTGLYCDVPSVSC	EVA	AQR	QGV	DVAR	LCQH	GGLC	VDAG	NTHH	CRCQ	1134
Macaca_mul	1067	SGWTGLYCDVPSVSC	EVA	AQR	QGV	DVA	QLCQH	GGLC	VDAG	NTHH	CRCQ	1114
Mus_muscul	1087	SGWTGVNCDVLSVSC	EVA	AQR	RGID	VTLL	CQH	GGLC	CVDE	GDKH	YCHC	1134
Rattus_nor	1087	SGWTGFNCDVLSVSC	EVA	AQR	RGID	VTLL	CQH	GGLC	CVDE	EEDK	HYCH	1134
Cavia_porc	1096	SGWTGLYCDVPSVSC	KVA	AQR	RDID	VAYL	CQH	GGLC	VDAG	NTHH	CRCQ	1143
Cynops_pyr	1086	SGWTGLYCDVPSVSC	EVA	AKQ	QGV	DVAN	LCRN	SGLC	EDTG	NTHH	CRCQ	1133
Danio_reri	1085	SGWTGIYCDVPSVSC	EVA	ARQ	QGV	SAVL	LCRH	HAGQ	VDAG	NTHL	CRCQ	1132
Oreochromi	1087	TGWTGLYCDIPSVSC	EVA	AKQ	QGV	VAHL	LCRN	SGQC	LDAG	NTHY	CRCQ	1134

cons 1105 :**** . ** : **** :*** :.:. : * ** :. * * * :. * * : ** 1152

Homo_sapie	1135	AGYTGSYCEDLVDEC	SPSP	CQNG	ATCT	DYLG	GYSC	KCV	VAGY	HGVN	CSE	1182
Pan_troglo	1135	AGYTGSYCEDLVDEC	SPSP	CQNG	ATCT	DYLG	GYSC	KCV	VAGY	HGVN	CSE	1182
Macaca_mul	1115	AGYTGSYCEDLVDEC	SPSP	CQNG	ATCT	DYLG	GYSC	KCV	VAGY	HGVN	CSE	1162
Mus_muscul	1135	AGYTGSYCEDEVDEC	SPNP	CQNG	ATCT	DYLG	GFSC	KCV	VAGY	HGSN	CSE	1182
Rattus_nor	1135	AGYTGSYCEDEVDEC	SPNP	CQNG	ATCT	DYLG	GFSC	KCV	VAGY	HGSN	CSE	1182
Cavia_porc	1144	AGYTGSYCEEVDEC	SPSP	CQNG	ATCT	DYLG	GYSC	KCV	VAGY	HGTN	CSE	1191
Cynops_pyr	1134	AGYTGSYCEEQVDEC	SPNP	CQNG	ATCT	DYLG	YSCE	CV	VAGY	HGIN	CSQ	1181
Danio_reri	1133	AGYTGSYCQE	QVDEC	QPNP	CQNG	ATCT	DYLG	YSCE	CV	PGYH	GMNCS	1180
Oreochromi	1135	AGYTGSYCQE	QVDEC	SPNP	CQNG	ATCT	DYLG	YSCE	CV	PGYH	GVNCS	1182

cons 1153 ***** : : **** . * . ***** : ** : ** . ***** * * * : 1200

Homo_sapie	1183	EIDECLSHPCQNGGT	CLDLP	NTYK	CSC	PRGT	QGVH	CEI	INVDD	CNPP	PVD	1230
Pan_troglo	1183	EIDECLSHPCQNGGT	CLDLP	NTYK	CSC	PRGT	QGVH	CEI	INVDD	CNPP	PVD	1230
Macaca_mul	1163	EIDECLSHPCQNGGT	CLDLP	NTYK	CSC	PRGT	QGVH	CEI	INVDD	CNPP	PVD	1210
Mus_muscul	1183	EINECLSQPCQNGGT	CIDL	TNSY	KCSC	PRGT	QGVH	CEI	INVDD	CHPL	LD	1230
Rattus_nor	1183	EINECLSQPCQNGGT	CIDL	TNTY	KCSC	PRGT	QGVH	CEI	INVDD	CHPL	LD	1230
Cavia_porc	1192	ETNECLSQPCQNGGT	CIDL	TNTY	KCSC	PRGT	QGVH	CEI	INVDD	SPLH	LD	1239
Cynops_pyr	1182	EINECQSHPCQNGGT	CIDL	VNTY	KCSC	PRGT	QGVH	CEI	INVDD	CNPF	FD	1229
Danio_reri	1181	EINECLSQPCQNGGT	CIDL	VNTY	KCSC	PRGT	QGVH	CEI	DIDDD	CSPS	VLD	1228
Oreochromi	1183	EINECQSQPCQNGGT	CIDL	INTY	KCSC	PRGT	QGVH	CEI	NLDD	CNPS	SRD	1230

cons 1201 * : ** * : * ***** : ** * : ***** : : ** * * 1248

Homo_sapie	1231	PVSRSPK	CFNNGT	CV	DQV	GGYS	CTCP	PGFV	GERCE	GDVNE	ECLSN	PCDA	1278	
Pan_troglo	1231	PVSRSPK	CFNNGT	CV	DQV	GGYS	CTCP	PGFV	GERCE	GDVNE	ECLSN	PCDA	1278	
Macaca_mul	1211	PVSRSPK	CFNNGT	CV	DQV	GGYS	CTCP	PGFV	GERCE	GDVNE	ECLSN	PCDA	1258	
Mus_muscul	1231	PASRSPK	CFNNGT	CV	DQV	GGYT	TCTCP	PGFV	GERCE	GDVNE	ECLSN	PCDP	1278	
Rattus_nor	1231	PASRSPK	CFNNGT	CV	DQV	GGYT	TCTCP	PGFV	GERCE	GDVNE	ECLSN	PCDP	1278	
Cavia_porc	1240	LASRSPK	CFNNGT	CV	DQV	GGYT	TCTCP	PGFV	GERCE	GDVNE	ECLSN	PCDA	1287	
Cynops_pyr	1230	PVTHEPK	CFNNGK	CV	DRV	GGY	CNCL	PGFV	GERCE	GDVNE	ECLSN	PCDP	1277	
Danio_reri	1229	PLTGEPR	CFNNGR	CV	DRV	GGY	GCVC	PAGF	VG	GERCE	GDVNE	ECLSD	PCDP	1276
Oreochromi	1231	PLTNEPK	CFNNGK	CV	DR	IGGY	QCVC	PPGY	VGER	CE	GDVNE	ECLSD	PCDP	1278

cons 1249 : . * : ** . * * * : : ** * * * . * : ***** : : ** * . 1296

Homo_sapie	1279	RGTQNCVQRVNDFHCECRAGHTGRRCESVINGCKGKPCKNGGTCAVAS	1326
Pan_troglo	1279	RGTQNCVQRVNDFHCECRAGHTGRRCESVINGCKGKPCKNGGTCAVAS	1326
Macaca_mul	1259	RGTQNCVQRVNDFHCECRAGHTGRRCESVINGCKGKPCKNGGTCAVAS	1306
Mus_muscul	1279	RGTQNCVQRVNDFHCECRAGHTGRRCESVINGCRGKPCKNGGVCAVAS	1326
Rattus_nor	1279	RGTQNCVQRVNDFHCECRAGHTGRRCESVINGCRGKPCRNNGVCAVAS	1326
Cavia_porc	1288	RGTQNCVQRVNDFHCECRAGHTGRRCESVIDGCKGKPCRNNGVCAVAT	1335
Cynops_pyr	1278	RGTQNCIQLVNDYRCECRQGYSGRRCNTVVDGCKGKPCRNNGTCSVAS	1325
Danio_reri	1277	SGSYNCVQLINDFRCECRTGYTGKRCETVFNGCKDTPCKNNGTCAVAS	1324
Oreochromi	1279	RGSYNCIQLTNSYRCECRTGYTGQRCDKVFVDGCKGRPCRNNGTCAVAS	1326

cons 1297 * : * * : * * . : : * * * * * : : * : * * : . * : : * * : . * * : * * * . * : * * : 1344

Homo_sapie	1327	NTARGFICKCPAGFEGATCENDARTCGSLRCLNNGGTCISGPRSPTCLC	1374
Pan_troglo	1327	NTARGFICKCPAGFEGATCENDARTCGSLRCLNNGGTCISGPRSPTCLC	1374
Macaca_mul	1307	NTARGFICKCPAGFEGATCENDARTCGSLRCLNNGGTCISGPRSPTCLC	1354
Mus_muscul	1327	NTARGFICRCPAGFEGATCENDARTCGSLRCLNNGGTCISGPRSPTCLC	1374
Rattus_nor	1327	NTARGFICRCPARFEGATCENDARTCGSLRCLNNGGTCISGPRSPTCLC	1374
Cavia_porc	1336	NTARGFICRCPAGFEGATCENDARTCGSLRCLNNGGTCISGPRSPTCLC	1383
Cynops_pyr	1326	NTDRGFICKCPSGFDGAICQYDSRSCGNLPCLHGGSCVSVILKTSQCMC	1373
Danio_reri	1325	NTKHGYICKCQPGYSGSSCEYDSQSCGSLRCRNGATCVSGHLSRCLC	1372
Oreochromi	1327	NTPHGFVCKCPCPGFTGSTCEYDSRACGSLNCRNNGGTCVSGHLGPRCLC	1374

cons 1345 * * : * : * : * * . : * : * : * : : * * . * * : * . : * : * . * : * 1392

Homo_sapie	1375	LGPFTGPECQFPASSPCLGGNPCYNQGTCEPTSESPFYRCLCPAKFNG	1422
Pan_troglo	1375	LGPFTGPECQFPASSPCLGGNPCYNQGTCEPTSESPFYRCLCPAKFNG	1422
Macaca_mul	1355	LGPFTGPECQFPASSPCLGGNPCYNQGTCEPTSESPFYRCLCPAKFNG	1402
Mus_muscul	1375	LGSFTGPECQFPASSPCVGSNPCYNQGTCEPTSENPFYRCLCPAKFNG	1422
Rattus_nor	1375	LGSFTGPECQFPASSPCVGSNPCYNQGTCEPTSESPFYRCLCPAKFNG	1422
Cavia_porc	1384	LGAFTGPECQFPASSPCMGDNPCYNQGTCEPTAESPFYRCLCPAKFNG	1431
Cynops_pyr	1374	TAAAYTGPPCQYQPVSSPC-NSSPCYNGGTCCKFVPEAPFYQCMCPGKFN	1420
Danio_reri	1373	APGFSGHECQTRMDSPC-LVNPCYNGGTCQPIISDAPFYRCSCPANFNG	1419
Oreochromi	1375	PSTFTGPECQTPTDSLCL-ISNPCYNGGTCQITPDPPFFQCSCPSNFNG	1421

cons 1393 : * : * * . * * . * * * * * * : . : * * : * * * * . * * : * * * 1440

Homo_sapie	1423	LLCHILDYSFGGGAGRDI-PPPLIEEACELPECQEDAGNKVCSLQCNN	1469
Pan_troglo	1423	LLCHILDYSFGGGAGRDI-PPPLIEEACELPECQEDAGNKVCSLQCNN	1469
Macaca_mul	1403	LLCHILDYSFGGGAGRDI-PPPQIEEACELPECQEDAGNKVCSLQCNN	1449
Mus_muscul	1423	LLCHILDYSFTGGAGRDI-PPPQIEEACELPECQVDAGNKVCNLQCNN	1469
Rattus_nor	1423	LLCHILDYSFTGAAGRDI-PPPQIEEACELPECQEDAGNKVCNLQCNN	1469
Cavia_porc	1432	LQCHILDYSFVGGAGRDI-PPPEVEEACELPECQEDAGNKVCSLQCNN	1478
Cynops_pyr	1421	LYCHILDYEFNGGVGQDI-IPPEIEEQCEIPVCASSSGNKICNTQCNN	1467
Danio_reri	1420	LLCHILDYSFSGGQGRDIAPPVEVEIRCEIAQCEGRGGNAICDTQCNN	1467
Oreochromi	1422	LLCHILDYSFVGGFGRDITPPPPEVEMSCIEIPQCDEFAGNHICNSVCNN	1469

cons 1441 * * * * * * . * . * : * * * * * : * : * * : . * . * * : * . * * * 1488

Homo_sapie	1470	HACGWDGGDCSLNFNDPWKNCTQSLQ	CWKYFSDGHCD	SQCNSAGCLFD	1517	
Pan_troglo	1470	HACGWDGGDCSLNFNDPWKNCTQSLQ	CWKYFSDGHCD	SQCNSAGCLFD	1517	
Macaca_mul	1450	HACGWDGGDCSLNFNDPWKNCTQSLQ	CWKYFSDGHCD	SQCNSAGCLFD	1497	
Mus_muscul	1470	HACGWDGGDCSLNFNDPWKNCTQSLQ	CWKYFSDGHCD	SQCNSAGCLFD	1517	
Rattus_nor	1470	HACGWDGGDCSLNFNDPWKNCTQSLQ	CWKYFSDGHCD	SQCNSAGCLFD	1517	
Cavia_porc	1479	HACGWDGGDCSLNFNDPWKNCSQSLQ	CWKYFSDGRCD	SQCNSAGCLFD	1526	
Cynops_pyr	1468	HACGWDGGDCSLNFNDPWKNCTQSLQ	CWKYFNDGKCD	SQCNNAGCLYD	1515	
Danio_reri	1468	HACGWDGGDCSLNFDPPWQNC	SAALQ	CWRYFNDGKCD	EQCATAGCLYD	1515
Oreochromi	1470	HACGWDGGDCSLNFDPPWQNC	SSALQ	CWRYFNDGKCD	GQCNSPGLYD	1517

cons 1489 *****:***:**: :*****:**.***:** ** .*****: 1536

Homo_sapie	1518	GFDCQRAEGQCNPPLYDQYCKDHFSDGHCD	QGCNSAECEWDGLDCAEHV	1565
Pan_troglo	1518	GFDCQRAEGQCNPPLYDQYCKDHFSDGHCD	QGCNSAECEWDGLDCAEHV	1565
Macaca_mul	1498	GFDCQRAEGQCNPPLYDQYCKDHFSDGHCD	QGCNSAECEWDGLDCAEHV	1545
Mus_muscul	1518	GFDCQLTEGQCNPPLYDQYCKDHFSDGHCD	QGCNSAECEWDGLDCAEHV	1565
Rattus_nor	1518	GFDCQLTEGQCNPPLYDQYCKDHFSDGHCD	QGCNSAECEWDGLDCAEHV	1565
Cavia_porc	1527	GFDCQHAEGQCNPPLYDQYCKDHFSDGHCD	QGCNSAECEWDGLDCAEHV	1574
Cynops_pyr	1516	GFDCQKVEVQCNPPLYDQYCRDHFQDGHCD	QGCNNAECEWDGLDCSNNM	1563
Danio_reri	1516	GFDCQRLEGQCNPPLYDQYCRDHYADGHCD	QGCNNAECEWDGLDCADDV	1563
Oreochromi	1518	GFDCQQQEGQCNPPLYDQYCKDHYADGHCD	QGCNNAECEWDGLDCANNM	1565

cons 1537 ***** * *****:***: ***** .*****:..: 1584

Homo_sapie	1566	PERLAAGTLVVVVLMPPEQLRNSSFHFLRELSRVLHTNVVFKRDAHGQ	1613
Pan_troglo	1566	PERLAAGTLVVVVLMPPEQLRNSSFHFLRELSRVLHTNVVFKRDAHGQ	1613
Macaca_mul	1546	PERLAAGTLVVVVLMPPEQLRNSSFHFLRELSRVLHTNVVFKRDAHGQ	1593
Mus_muscul	1566	PERLAAGTLVVLVLLPPDQLRNSSFHFLRELSHVLHTNVVFKRDAQGQ	1613
Rattus_nor	1566	PERLAAGTLVVLVLLPPDQLRNSSFHFLRDVSHVLHTNVVFKRDAQGQ	1613
Cavia_porc	1575	PERLAAGTLVVVVLMPPEQLRNSSFHFLRELSRVLHTNVVFKRDAQGQ	1622
Cynops_pyr	1564	PEKLADGTLVIVVLTPEPELLKNNFNFLELSRVLHTNVVFKKDSKGE	1611
Danio_reri	1564	PQKLAVGSLLVLVVHIPPELNRSSSFLELSLLHTNVVFRRDANGE	1611
Oreochromi	1566	PEKLADGHLVVLVVHIPPELKNRSSAFLELSVVLHTNVVFRRDAKGE	1613

cons 1585 *:*** * **:** ** : ** * *****: * :*****:..: 1632

Homo_sapie	1614	QMIFPYYGREEELRKHPI	-KRAAEGW	----	A-	APDALLGQVKASLLPG	1655
Pan_troglo	1614	QMIFPYYGREEELRKHPI	-KRAAEGW	----	A-	APDALLGQVKASLLPG	1655
Macaca_mul	1594	QMIFPYYGREEELRKHPI	-KRAAEGW	----	A-	APEALLGQVKASLLPG	1635
Mus_muscul	1614	QMIFPYYGHEEELRKHPI	-KRSTVGW	----	A-	T-----SSLLPG	1646
Rattus_nor	1614	QMIFPYYGREEELRKHPI	-KRSAVGW	----	A-	T-----TSLLPG	1646
Cavia_porc	1623	QMIFPYYGREEELRKHPI	-KRSAPGW	----	A-	TPGSLLGQAAASLLTS	1664
Cynops_pyr	1612	YMIIPYYGSDEELTKHHI	-KRSTETW	----	SDV	STNVFNKVKMSLYT-	1653
Danio_reri	1612	ALIFPYYGSEHELKSKH	--KRS--	DW----	T-	DPGQLMQRARRSLT--	1647
Oreochromi	1614	PMIFPYYGNEQDLVKHNVL	-KRSADGW	PDWAS	S-	MPASVLDQVKDGV	S-- 1658

cons 1633 **:***** :.:* ** **: * : : :.: 1680

Homo_sapie 1656 GSEGGRRRRELDPM DVRSIVYLEIDNRQCVQASSQCFQSATDVAAFL 1703
Pan_troglo 1656 GSEGGRRRRELDPM DVRSIVYLEIDNRQCVQASSQCFQSATDVAAFL 1703
Macaca_mul 1636 GGGGGRRRRELDPM DVRSIVYLEIDNRQCVQASSQCFQSATDVAAFL 1683
Mus_muscul 1647 -TSGGRQRRELDPM DIRGSIVYLEIDNRQCVQSSSQCFQSATDVAAFL 1693
Rattus_nor 1647 -TNGGRQRRELDPM DIHGSIVYLEIDNRQCVQSSSQCFQSATDVAAFL 1693
Cavia_porc 1665 -EGPGRQRRELDPM DIRGSIVYLEIDNRQCVQLSSQCFQSATDVAAFL 1711
Cynops_pyr 1654 -SSNGRQRRELDQNEIKGSIVYLEIDNRQCFQSSSLQCFQSATDVAAFL 1700
Danio_reri 1648 SFLKPRTRRELDHMEVKGSIVYLEIDNRQCFQQSDECFQSATDVAAFL 1695
Oreochromi 1659 SIVSSRKRRRELDPLQIKGSVVYLEIDNRQC YQQSTECFQSATDVAAFL 1706

cons 1681 * ***** : : : * : * * * * * * * * * * * * * * * * : * * : * * * * * * * * * * * * 1728

Homo_sapie 1704 GALASLGSLNIPYKIEAVQSE TVEPPPP -AQLHFMYVAAAAFVLLFFV 1750
Pan_troglo 1704 GALASLGSLNIPYKIEAVQSE TVEPPPP -AQLHFMYVAAAAFVLLFFV 1750
Macaca_mul 1684 GALASLGSLNIPYKIEAVQSE SVEPPPP -AQLHFMYVAAAAFVLLFFV 1730
Mus_muscul 1694 GALASLGSLNIPYKIEAVKSE PVEPPLP -SQLHLMYVAAAAFVLLFFV 1740
Rattus_nor 1694 GALASLGSLNIPYKIEAVKSE TVEPPPP -SQLHLMYVAAAAFVLLFFV 1740
Cavia_porc 1712 GALASLGSLNIPYKIEAVQSE TVEPPPP -SQLHLMYLVLGAAAFVLLFFV 1758
Cynops_pyr 1701 GALASHGNLNI PYKIEAVKSE TGEPSPK G-PPLYLMYVLVVALVVLAFI 1747
Danio_reri 1696 GALASSGNLNVPI IIEAVTSEG -GPPKT -GEMYPMFLVLLALAVLALA 1741
Oreochromi 1707 GALATSGNLNVPI -IEAVTSV -RPTPSGSELYPMYIVFLGLAALGFI 1751

cons 1729 **** : * . ** : * * * * * * * * * * * * * * * * : : * : : . : . * : 1776

Homo_sapie 1751 GCGVLLSRKRRRQHGLWFPEGFVKVSEASKKKRREPLGEDSVGLKPLK 1798
Pan_troglo 1751 GCGVLLSRKRRRQHGLWFPEGFVKVSEASKKKRREPLGEDSVGLKPLK 1798
Macaca_mul 1731 GCGVLLSRKRRRQHGLWFPEGFVKVSEASKKKRREPLGEDSVGLKPLK 1778
Mus_muscul 1741 GCGVLLSRKRRRQHGLWFPEGFVKVSEASKKKRREPLGEDSVGLKPLK 1788
Rattus_nor 1741 GCGVLLSRKRRRQHGLWFPEGFVKVSEASKKKRREPLGEDSVGLKPLK 1788
Cavia_porc 1759 GCGVLLSRKRRRQHGLWFPEGFVKVSEASKKKRREPLGEDSVGLKPLK 1806
Cynops_pyr 1748 GVGVLVSRKRRHEHGQLWFPEGFKVTETNKSKRRPPLGEDSVGLKPLK 1795
Danio_reri 1742 AVGVVVSRRKREHGQLWFPEGFKVN E P -KKKRREPVGEDSVGLKPLK 1788
Oreochromi 1752 CLGVLVSRKRRREHGQLWFPEGFKASEPSKKKRSEPLGEDSVGLKPK 1799

cons 1777 * : : * * * * : : * * * * * * * * * * * * * * * * . * . * . * * * * : * * * * * * * * * * : * 1824

Homo_sapie 1799 NASDGALMDDNQNEWGDED -LETKKFRFEEPVVLPLDDQTDHRQWTQ 1845
Pan_troglo 1799 NASDGALMDDNQNEWGDED -LETKKFRFEEPVVLPLDDQTDHRQWTQ 1845
Macaca_mul 1779 NASDGALMDDNQNEWGDED -LETKKFRFEEPVVLPLDDQTDHRQWTQ 1825
Mus_muscul 1789 NASDGALMDDNQNEWGDED -LETKKFRFEEPVVLPLDSLQTDHRQWTQ 1835
Rattus_nor 1789 NASDGALMDDNQNEWGDED -LETKKFRFEEPVVLPLDDQTDHRQWTQ 1835
Cavia_porc 1807 NVSDGALMDDNQNEWGDED -LEAKKFRFEEPVVLPLDDQTDHRQWTQ 1853
Cynops_pyr 1796 NSTD - -LMDDNQTEWGDEETLDSKRFRFEQEAMLPDMNDQTDHRRQWTQ 1841
Danio_reri 1789 N -SDSSLMDEQLSEWAEDD -TN -KRFRFEGQSIL -EMSGQLDHRQWTQ 1832
Oreochromi 1800 H -SDMNLMDNNDQNEWEDD -PECKRFRFE EQAML -DLGDHTDHRKWTQ 1844

cons 1825 : : * * * * : : . * * : : : : * : * * * * : * : : . : : * : * : * * * * 1872

Homo_sapie	1846	QHLLDAADLRMSAMAPT	PPQGEVDADCMDVNVRGPDGFTPLMIASCSGG	1893
Pan_troglo	1846	QHLLDAADLRMSAMAPT	PPQGEVDADCMDVNVRGPDGFTPLMIASCSGG	1893
Macaca_mul	1826	QHLLDAADLRMSAMAPT	PPQGEVDADCMDVNVRGPDGFTPLMIASCSGG	1873
Mus_muscul	1836	QHLLDAADLRMSAMAPT	PPQGEVDADCMDVNVRGPDGFTPLMIASCSGG	1883
Rattus_nor	1836	QHLLDAADLRVSAMAPT	PPQGEVDADCMDVNVRGPDGFTPLMIASCSGG	1883
Cavia_porc	1854	QHLLDAADLRVSAMAPT	PPQGEVDADCMDVNVRGPDGFTPLMIASCSGG	1901
Cynops_pyr	1842	QHLLDAADLRISSMAPT	PPQGEIDPDCLDVNVRGPDGFTPLMIASCSGG	1889
Danio_reri	1833	QHLLDAADLRRLNSMAPT	PPQGGQIENDCMDVNVRGPDGFTPLMIASCSGG	1880
Oreochromi	1845	QHLLDAADLRRIESIAPT	PPQGGDIENGCMDVNVRGPDGFTPLMIASCSGG	1892

cons	1873	*****:.:*****:.: .*:*****		1920
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Homo_sapie	1894	GLETGNSEEEEDAPA-	VISDFIYQGASLHNQTDRTGETALHLLAARYSR	1940
Pan_troglo	1894	GLETGNSEEEEDAPA-	VISDFIYQGASLHNQTDRTGETALHLLAARYSR	1940
Macaca_mul	1874	GLETGNSEEEEDAPA-	VISDFIYQGASLHNQTDRTGETALHLLAARYSR	1920
Mus_muscul	1884	GLETGNSEEEEDAPA-	VISDFIYQGASLHNQTDRTGETALHLLAARYSR	1930
Rattus_nor	1884	GLETGNSEEEEDAPA-	VISDFIYQGASLHNQTDRTGETALHLLAARYSR	1930
Cavia_porc	1902	GLETGNSEEEEDAPA-	VISDFIYQGASLHNQTDRTGETALHLLAARYSR	1948
Cynops_pyr	1890	GLETGNSEEEEDASANV	ISDFLYQGANLHNQTDRTGETALHLLAARYAR	1937
Danio_reri	1881	GLENENGEAEEDPSADV	ITDFIYHGANLHNQTDRTGETALHLLAARYAR	1928
Oreochromi	1893	GLENGNSEEEEDPSAEI	ISDFIYQGANLHNQTDRTGETALHLLAARYAR	1940

cons	1921	***. *. * ** . . * :*:**:*:* * .*****		1968
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Homo_sapie	1941	SDAAKRLLEASADANIQDNM	GRTPPLHAAVSADAQGQVFQIL	1980
Pan_troglo	1941	SDAAKRLLEASADANIQDNM	-----	1960
Macaca_mul	1921	SDAAKRLLEASADANIQDNM	GRTPPLHAAVSADAQGQVFQIL	1960
Mus_muscul	1931	SDAAKRLLEASADANIQDNM	GRTPPLHAAVS-----	1960
Rattus_nor	1931	SDAAKRLLEASADANIQDNM	GRTPPLHAAVS-----	1960
Cavia_porc	1949	SDAAKRLLEASA-----	-----	1960
Cynops_pyr	1938	SDAAKRLLEASANANVQDNM	GRTPPLHAAVAAD-----	1960
Danio_reri	1929	SDAAKRLLESCADANVQDNM	GRTPPLHAAVAAD-----	1960
Oreochromi	1941	SDAAKRLLESSADANVQDNM	-----	1960

cons	1969	*****:.*		2008
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