

T-COFFEE, Version_6.85 Tue Sep 9 14:03:25 WEST 2008

Cedric Notredame

CPU TIME:18 sec.

SCORE=72

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BAD AVG GOOD

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Homo_sapie	:	75
Pan_troglo	:	75
Bos_taurus	:	73
Mus_muscul	:	72
Gallus_gal	:	73
Danio_reri	:	67
Arabidopsi	:	68
Oryza_sati	:	67
Plasmodium	:	68
cons	:	72

Homo_sapie	1	MAAVPQNNLQEQLERHSARTLNNKLSLSKPKFSGFTFKKKTSSDNNVS	48
Pan_troglo	1	MAAVPQNNLQEQLERHSARTLNNKLSLSKPKFSGFTFKKKTSSDNNVS	48
Bos_taurus	1	MAAVPQNNLQEQLERHSARKLNNKLSLSKPKSSGFTFKKKTSSANNVS	48
Mus_muscul	1	MAAVPLNNLQEQLQRHSARKLNNQPSLSKPKSLGFTFKKKTSEGDVS	47
Gallus_gal	1	-----MEEARAATNGGS-----	12
Danio_reri	1	MSSLPQNNLKEHLERHN-NAAQNKLSLLKPKPGGFCKKKSSSGISKV	47
Arabidopsi	1	-----MK-----DQDLELEKVRLLIS-----	15
Oryza_sati	1	-----MAGYEREKKRLLD-----	13
Plasmodium	1	-----MNEDAMKILNKCSG-----	14
cons	1		48

Homo_sapie	49	VTNVSVAKTPVLRNKDVNVTEDFSFSSE-PLPNTTNQQRV--KDFFKNA	93
Pan_troglo	49	VTNVSAAKTPVLRNKDVNVTEDFSFSSE-PLPNTTNQQRV--KDFFKNA	93
Bos_taurus	49	VTSVSVAKTPVLSKDKDVNITEAFSFSSE-PLPHTTNQQTG--INDFKSA	93
Mus_muscul	48	VTSVSVVKTTPALSDDKDVNVSEAFSFTESPLHKPKQQAQKI--EGFFKHF	93
Gallus_gal	13	-----	12
Danio_reri	48	EVPQKVTGSSVLANRSVNIIPSNFEVTKNPVTFSQKPERVAPKVNFFTA	95
Arabidopsi	16	-----LATKLGFDE-DSAKKCLDRFV--DLYGDDG	42
Oryza_sati	14	-----LAADSGFER-DLAADCLDRIV--RLYGEGG	40
Plasmodium	15	-----	14
cons	49		96

Homo_sapie	94	PAGQETQRGGSKSLLPDFLQTPKEVVCTTQNTPTVKKSRD-TALKKLE	140
Pan_troglo	94	PAGQQTQRVGSKSLLPDFLQTPKEVLCTTQNTPTVKKSRD-TALKKLE	140
Bos_taurus	94	PSGPQTKRVGSKPLLPSSLQVPPQEVSCCTAQTPTVIKQSLN-ATFKKLE	140
Mus_muscul	94	PGRQQSKGTCSEPSLPATVQTAQDTLCTTPKTPTAKKLPV-AVFKKLE	140
Gallus_gal	13	-----	12
Danio_reri	96	PSKPKTNTVNPLANPFALNKTPLVQSTIKALPKSAALPKDS-TNDQTV	143
Arabidopsi	43	-----RDFITVELCGD-DFLAAL-	59
Oryza_sati	41	-----QGFITVENC GD-DFLGAL-	57
Plasmodium	15	-----	14
cons	97		144

Homo_sapie	141	FSSSPDLSLSTINDWDDMDDFDTSK--SFVTPPQSHFVRVSTAQKS	186
Pan_troglo	141	FSSSPDLSLSTINDWDDMDDFDTSK--SFVTPPQSHFVRVSTAQKS	186
Bos_taurus	141	FSSSDSLIAFNWDDMDDFDTSK--AFVTPCKNHFVRVSTAQKS	186
Mus_muscul	141	FSSSADSLSDWADWDDMDDFDMS-ASD--AFASLAKNPATRVSTAQKM	182
Gallus_gal	13	-----	12
Danio_reri	144	LKHDISQ-LSFNEWDDLDDFETPVKSRVAVSPVAGTSTKKPSVSDQNTS	190
Arabidopsi	60	----ADFEEGTEEWDDIQAIESE-----	78
Oryza_sati	58	----ADATNNNDWDDLNAIENE-----	76
Plasmodium	15	-----	14

cons 145  192

Homo_sapie	187	KKGKRNFKAQLYTTN-TVKTDLPPSSSESEQIDLTEEQKDDSE----	229
Pan_troglo	187	KKGKRNFKAQLYTTN-TVKTDLPPSSETEQIDLTEEQKDDSE----	229
Bos_taurus	187	KKSKRNLVKAQLNKTH-TGETDLAPSSSESKQEHLTEKQKDDSE----	229
Mus_muscul	183	KKTKRNFKAQLYTTN-AVKTDLTPSPECLQVDLTKESEEEEEEEEE	229
Gallus_gal	13	-----	12
Danio_reri	191	SSCSSKCEETKVNEESQATETITAP-KDVLSAANGVSTETAERE----	233
Arabidopsi	79	-----	78
Oryza_sati	77	-----	76
Plasmodium	15	-----	14

cons 193  240

Homo_sapie	230	----WLSSDVICIDDGPIAEVHINEDAQESDSLKTHLEDERDNSEKK	272
Pan_troglo	230	----WLSSDVICIDDGPIAEVHINEDAQESDSLKTHLEDERDNSEKK	272
Bos_taurus	230	----WLSSDVICIDDDPDPEELINEDTQENHSLKTHLGAERGNCEKK	272
Mus_muscul	230	AEGADCLSRDVICIDNDSASEELTEKDTQESQSLKAHLGAERGDSEKK	277
Gallus_gal	13	-----GESQKLSNGEKS	24
Danio_reri	234	----PEDSPIKSKRPKKSQHTALLSDTEDEEIIHCVSPDTNQKNF	276
Arabidopsi	79	-----	78
Oryza_sati	77	-----	76
Plasmodium	15	-----	14

cons 241  288

Homo_sapie	273	KNLEEAELHSTEKVPCIEFDDDDYD-----TDFVPPSPEEIISSASSS	314
Pan_troglo	273	KNLEEAELHSTEKVPCIEFDDDDYD-----TDFVPPSPEKIISSSSSS	314
Bos_taurus	273	KNLEETELRSVEKSSCIELDEDDYD-----IDFVPPSPEEGMTSTSS	314
Mus_muscul	278	SHEDEAVFHSVQNTTEYFEHNDNDYD-----IDFVPPSPEEIIISTASS	319
Gallus_gal	25	SQLEPGDV-GNELLADIELEEDDY-----LDVVPPSPEEELPSFSP	64
Danio_reri	277	KSVAVA EKDKWGEPNVDSDDCEENNHYEGFEDFIPPSPIPEEISLSV	324
Arabidopsi	79	-----	78
Oryza_sati	77	-----	76
Plasmodium	15	-----	14

cons 289  336

Homo_sapie	315	SS-KCLSTLKDLDTSDRKEDVLSTS-KDLLSKPEKMSMQELNPETSTD	360
Pan_troglo	315	SS-KCLSMMLKDLDTSDRKEDVLSTS-KDLLSKPEKMSTQELNPETSTD	360
Bos_taurus	315	SSLKCSSMLKDLDTSDKKHS-LSTS-ED-LSKLEKEMATQQPNQETSTS	359
Mus_muscul	320	SL-KCSSMLKDLDDSDKEKGI LSTS-EELLSKPEEMTTHKSDAGTSKD	365
Gallus_gal	65	SV-RNVSNIKFESPTDGRSAVHGTESEPELMAKQPAAEQ---DSSAE	108
Danio_reri	325	SD-KEKSSSEPVTPANKKES--SR-SASGLPAPLDQSAKGLK---GAD	365
Arabidopsi	79	-----	78
Oryza_sati	77	-----	76
Plasmodium	15	-----EK-----	16

cons 337  384

Homo_sapie	361	CDARQISLQQQLIHVMEHICKLIDTIPDDKLLKLLDCGNELLQQRNIRR	408
Pan_troglo	361	CDARQISLQQQLIHVMEHICKLIDTIPDDKLLKLLDCGNELLQQRNIRR	408
Bos_taurus	360	CEARQTSLSLQQQLIRVMDRICKLVDAVPDDELKALDCGNELLQQRDIRR	407
Mus_muscul	366	CDAQQIRIQQLIHVMEHICKLVDTVPTDELEALNCGTELLQQRNIRR	413
Gallus_gal	109	HADKGLHLEQQLYSVMEDICKLVDAIPLHELTSISCAKELLQQRELRR	156
Danio_reri	366	-----DALFSVMESICCLVDTIPEHELIALTCGTELLLQRAHRK	404
Arabidopsi	79	-----	78
Oryza_sati	77	-----	76
Plasmodium	17	-----	16

cons 385  432

Homo_sapie	409	KLLTEVDFNKSD--A-SLLGSLWRY-----RPDS--LDG--PM--	439
Pan_troglo	409	KLLTEVDFNKSD--A-SLLGSMWRC-----RPDS--LDG--PM--	439
Bos_taurus	408	KLLAEADFDPSD--A-SVLSAMWGC-----RPDP--LES--PV--	438
Mus_muscul	414	KLLAEAGFNGND--V-RLLGSLWRH-----RPDS--LDN--TV--	444
Gallus_gal	157	KLLADSGALNTN--S-VNGPRNWKACVQQDPSSRPGTPLCSG--PG--	197
Danio_reri	405	RILAKGGS SRTSHSDSVSTPGFLNR---PTFGVTPSN--LTSLTPTV	446
Arabidopsi	79	-----	78
Oryza_sati	77	-----	76
Plasmodium	17	-----	16

cons 433  480

Homo_sapie	440	E-----GDSCPTGNSMKELNFSHLPSNSV--S--PGDCL	469
Pan_troglo	440	K-----GDSCPTGNSMKELNFSHLPSNSV--S--PGDCL	469
Bos_taurus	439	KDLASVSLPYAFRKGDSCLAGNAVKEFTLPHLPSNSM--S--TRERL	481
Mus_muscul	445	Q-----GDSCPVGHPNKELNSPYLLSHSP--S--TEECL	474
Gallus_gal	198	R-----GVSS-VGSTPKSTNLPSVLSRTVNS--SFSTI	228
Danio_reri	447	S-----GKREGVKTFGFSFRKSIASVMSVGDE--SVFEDSDCI	481
Arabidopsi	79	-----AQGNLAEMF-----	87
Oryza_sati	77	-----ACGNLNGMM-----	85
Plasmodium	17	-----	16

cons 481  528

Homo_sapie	470	LT	---	TTLGKTGFSATRKNL	-----	FERPLFN	-----	THL	496
Pan_troglo	470	LT	---	TTLGKTGFSATRKNL	-----	FERPLFN	-----	THL	496
Bos_taurus	482	LT	---	PPLGKTGVLATTKSP	-----	FERPLFS	-----	SHL	508
Mus_muscul	475	PT	---	TTPGKTGFSATPKNL	-----	FERPLLN	-----	SHL	501
Gallus_gal	229	RN	---	QTLDKLDTSYSSKET	DQEVICLEPAA	LPSPKVN	GKGSTSL	SRP	273
Danio_reri	482	INGVE		TPGGTWNPNSSTKIS	-----	AGRDTFN	-----	GSI	511
Arabidopsi	88								87
Oryza_sati	86			KHGVIDDKEVE		VRTPLFR			103
Plasmodium	17								16

cons	529								576
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Homo_sapie	497	QK	---	SFVSSNWAETPRLGKKNESSYF	---	PGNVLTSTAVKDQNK	---		535
Pan_troglo	497	QK	---	SFVSSNWAETPRLGKKNESSYF	---	PGNVLTSTAVKDQNK	---		535
Bos_taurus	509	QK	---	SFVSSNWAETPRAEKRNESPDF	---	PGNVLTSTAVKDQNK	---		547
Mus_muscul	502	QK	---	SFVSSNWAETPRMENRNESDF	---	PGSVLTSTTVKAQSK	---		540
Gallus_gal	274	SE	---	ASFNGSWCEKPTG	-RDSGNWRV	PERPTASTALKAQHT	---		311
Danio_reri	512	QTL	LSKPE	SKTDKCYSRLSFNESLNQTDLFYS		PKRVDSGSRNADSSVEI			559
Arabidopsi	88								87
Oryza_sati	104								103
Plasmodium	17								16

cons	577								624
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Homo_sapie	536	HTASINDLERETQPS	---	YDIDNFDIDDFDDDD	---	DWE		DIMHNLAA	576	
Pan_troglo	536	HTASINDLERETQPS	---	YDIDNFDIDDFDDDD	---	DWE		DIMHNLAA	576	
Bos_taurus	548	YTT	SINDLERELQAA	---	CEIDNFDIDDFDDDD	---	DDWE	NLMQNLA	589	
Mus_muscul	541	QAASGWNVERHGQAS	---	YDIDNFNIDDFDDDDDDDDWE	---			NIMHNFPA	584	
Gallus_gal	312	APAG	--NPASGCWDV	---	NDTD	-FDLDHFDIDDFDEGWE	---	EAVAPEAA	352	
Danio_reri	560	NIAGSSSLRTGAEPVDD		FLLD	DFDIDDFDEND	IPDY	YE	E-PPSVLE	604	
Arabidopsi	88			DKSTNPS	-D	NGF	---	DTDDDDDDSRVEVHVIEDSPE	119	
Oryza_sati	104			QAESSARQTR	INLDSF	---	GFSSDD	---	FE-TLESHCDR	136
Plasmodium	17								16	

cons	625								672
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Homo_sapie	577	SKSSTAA	-YQP	-IKEGRPIKSVSERLSSAKTDCLPVSSSTAQNINFSES					622
Pan_troglo	577	SKSSTAA	-YQP	-IKEGRPIKSVSERLSSAKTNCLPVSSSTAQNINFSES					622
Bos_taurus	590	SKSSTAA	-YPP	-IKEGRPVKSVSERPSSAKTDCLPGASTTQNKNFSES					635
Mus_muscul	585	SKSSTAT	-YPP	-IKEGGPVKSLSERISSAKAKFLPVVSTAQNTNLSSES					630
Gallus_gal	353	PEAPPAP	QWQP	-LREGS	--ASLRCRL	LAAAAGSAP	---	GPHPTAPKS	393
Danio_reri	605	SRNNSGV	-KTPS	VQEGGSSKSFER	---	KTFTPPAPK	SIKTPN	-P	643
Arabidopsi	120	PKKKPE	-IVE	--LDSSSDLEDVETRFKVP	RRS	---	QTCSR	SMDYSMEDS	162
Oryza_sati	137	SVST	---	QKK	-VNRGNR	---	---	CES	153
Plasmodium	17								16

cons	673								720
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Homo_sapie	623	IQNYTDKSAQN----	LASRNLKHERFQSLSPHTKEMMKIFHKKFGLH	666
Pan_troglo	623	IQNYTDKSAQN----	LASGNLKHERFQSLSPHTKEMMKIFHKKFGLH	666
Bos_taurus	636	IPNYPDKMEQN----	LASRNPKHERFQSLNFPHTKEMMKIFHKKFGLH	679
Mus_muscul	631	IQNCSDKLAQN----	LSSKNPKHEHFQSLNFPHTKEMMKIFHKKFGLH	674
Gallus_gal	394	GCGISAKSSSE----	PLVHNPAHERFRGMKFSHSEEMLKIFHRKFGLH	437
Danio_reri	644	-----E-----	PLYRNPAHDRFRGFNFPHSPEMMKIFHKKFGLH	677
Arabidopsi	163	VSTISGRKPSVQISNKDHE	TPSYEELQALDDLEFANL-----VIFGNK	205
Oryza_sati	154	-----STSTSNRETLSY	QQLYSLDDINFANV-----VIFGNK	185
Plasmodium	17	-----KKGED-----	LNSCNLLEYKYTKYSSIDIEKAKLILKEQFLIP	54
cons	721			768

Homo_sapie	667	NFRTNQLEA	INAALLGEDCFILMPTGGGKSLCYQLPACVSPGVTVVIS	714
Pan_troglo	667	NFRTNQLEA	INAALLGEDCFILMPTGGGKSLCYQLPACVSPGVTVVIS	714
Bos_taurus	680	NFRTNQLEA	INAALLGEDCFILMPTGGGKSLCYQLPACVSPGVTIVIS	727
Mus_muscul	675	NFRTNQLEA	INAALLGEDCFILMPTGGGKSLCYQLPACVSPGVTIVIS	722
Gallus_gal	438	SFRTNQLEA	INAALLGEDCFILMPTGGGKSLCYQLPACVSAGVTVVIS	485
Danio_reri	678	QFRFNQLEA	INASLLGEDTFVLMPTGGGKSLCYQLPACVSAGVTVVIS	725
Arabidopsi	206	VFRPLQHQAC	RASMERKDCFVLMPTGGGKSLCYQLPATLTKAGVTIVIS	253
Oryza_sati	186	SFRPLQYEAC	RAAVSNMDTFVLMPTGGGKSLCYQLPATLHPGVTVVVC	233
Plasmodium	55	DFREKQLECL	NSIKRFEHVLNIMPTGGGKSLIYQVLPLIIEGISIVIS	102
cons	769	** * : . . :	. : :***** ** : . : *:::*. .	816

Homo_sapie	715	PLRSLIVDQVQKLT-	SLDIPATYLTGDKTDSEATNIYLQLSKKD-PII	760
Pan_troglo	715	PLRSLIVDQVQKLT-	SLDIPATYLTGDKTDSEATNIYLQLSKKD-PII	760
Bos_taurus	728	PLRSLIVDQVQKLT-	SLDIPATYLTGDKTDSEATSIIYLQLSKKD-PII	773
Mus_muscul	723	PLRSLIVDQVQKLT-	SFDIPATYLTGDKTDSEAAIIYLQLSKKD-PII	768
Gallus_gal	486	PLRSLIIDQVQKLT-	TLDIASTYLTGDITDADASKTYMQLSKKD-PII	531
Danio_reri	726	PLRSLIVDQVQKLT-	TLDICATSLSGDKKDSEAAARIYMQLSRKD-PAI	771
Arabidopsi	254	PLLSLIQDQIVALNL	KFGIPATFLNSQQTSSQAAAVLQELRRDN-PSC	300
Oryza_sati	234	PLLSLIEDQIVALNF	KFAIPAAFLNSQQTSPQSSAVIQELRSKG-PSF	280
Plasmodium	103	PLISLIQDQIISLR-	NKKIVAETINSSLNKKENERILDILKSQDLGNL	149
cons	817	** *** **: *	. * : :. . . : *	864

Homo_sapie	761	KLLYVTPEKICASNRL	ISTLENLYERKLLARFVIDEAHCVSQWGHDFR	808
Pan_troglo	761	KLLYVTPEKICASNRL	ISTLENLYERKLLARFVIDEAHCVSQWGHDFR	808
Bos_taurus	774	KLLYVTPEKVCASNRL	ISTLENLYERKLLARFVIDEAHCVSQWGHDFR	821
Mus_muscul	769	KLLYVTPEKVCASNRL	ISTLENLYERKLLARFVIDEAHCVSQWGHDFR	816
Gallus_gal	532	KLLYVTPEKVCASNRL	LSALENLYNRKLLARFVIDEAHCVSQWGHDFR	579
Danio_reri	772	KLLYATPEKVCASGR	MISALQNLRYERGLLARLVIDEAHCVSQWGHDFR	819
Arabidopsi	301	KLLYVTPEKIAGSSSF	LETLRCLDRKGLLAGFVVDEAHCVSOWGHDFR	348
Oryza_sati	281	KLLYVTPERMAGNSS	FIGILIGLHQGLLARFVIDEAHCVSOWGHDFR	328
Plasmodium	150	KVLYITPE-TATSGY	FIDILYELYINKKISLISIDEVHCISTWGSDFR	196
cons	865	*:*** ***	. . . : : * * . : : : : ** . ** : * ** ***	912

Homo_sapie	809	QDYKRMNMLRQKFPSVPVMALTATANPRVQKDILTQLKIL	-----	848
Pan_troglo	809	QDYKRMNMLRQKFPSVPVMALTATANPRVQKDILTQLKIL	-----	848
Bos_taurus	822	PDYKRMNILRQKFPSVPVMALTATANPRVQKDILTQLKIL	-----	861
Mus_muscul	817	QDYKRMNMLRQKFPSVPVMALTATANPRVQKDILTQLKIL	-----	856
Gallus_gal	580	KDYKRLNMLRKKFHSVPMALTATANPRVQKDIQNQLEML	-----	619
Danio_reri	820	PDYKRLHELRRMFPNVPIMALTATATPRVQKDILNQLAMT	-----	859
Arabidopsi	349	PDYRELGLCLKQNFPRVPVMALTATATESVCQDVLKSLRIP	-----	388
Oryza_sati	329	PDYRGLGLCLKQNFPRVPIMALTATATASVCKDILSTLRIP	-----	368
Plasmodium	197	KSyrnLNKILDICPYVRTYCCTATATKfVEKDIrNLNFYIFNKDCDN		244
cons	913	. * : : : * . * * * * . * : * : * :		960

Homo_sapie	849	-----	RP	-----	QVFSMSFNrHNLKYYVL	--	867
Pan_troglo	849	-----	RP	-----	QVFSMSFNrHNLKYYVL	--	867
Bos_taurus	862	-----	RP	-----	QVFSMSFNrHNLKYYVL	--	880
Mus_muscul	857	-----	RP	-----	QVFSMSFNrHNLKYYVL	--	875
Gallus_gal	620	-----	KP	-----	QVFTMSFNrHNLKYDVL	--	638
Danio_reri	860	-----	RP	-----	QVFTMSFNrNHLKYSVL	--	878
Arabidopsi	389	-----	RA	-----	PVLKMSFDRINLKYEVI	--	407
Oryza_sati	369	-----	NA	-----	TVLKRsfDRtNLNYEVI	GK	389
Plasmodium	245	NINNNNINNNNNIHNNNKYDDHNN	NC	KVLNI	VRTSFNRrPNLKYIII	--	290
cons	961		.		: . * * * * * * * * * * : :		1008

Homo_sapie	868	PK	---	KPKKVAfDCL	EWIRKHHpYDSGIIYCLSRRECDTMADTL	-	QRD	911
Pan_troglo	868	PK	---	KPKKVAfDCL	EWIRKHHpYDSGIIYCLSRRECDTMADTL	-	QRD	911
Bos_taurus	881	PK	---	KPKKVAfDCL	EWIRKHHpHDSGIIYCLSRRECDTMAETL	-	QND	924
Mus_muscul	876	PK	---	KPKKVAfDCL	EWIRKHHpYDSGIIYCLSRRECDTMADTL	-	QRE	919
Gallus_gal	639	PK	---	KPKKVAMDCLE	WIKKYHPHDSGIIYCLSRHECDTAAAIL	-	QKE	682
Danio_reri	879	PK	---	KPKKVDEECI	QWIKKYPRDSGIVYCLSRNDCDTLADSL	-	QRA	922
Arabidopsi	408	VK	---	T-KEPLKQLQ	ELLRDRfKdQSGIVYCLSKSECVDVAKFLNEKC		451	
Oryza_sati	390	TK	---	TPQKQLGDL	---KERFMNMSGIVYCLSKNECADTAKFLREKY		431	
Plasmodium	291	YS	DLI	KDEKKNSVCDI	INEKRnKGGKIGIIYCFKRNTCDEISKYL	-	REK	337
cons	1009	.		. : :	. . * * * * * : : * : * . .		1056	

Homo_sapie	912	GLAALAYHAGLSDSARDEVQqKWInQDGCQVICATIAFGMGIDKPDVR		959	
Pan_troglo	912	GLAALAYHAGLSDSARDEVQqKWInQDGCQVICATIAFGMGIDKPDVR		959	
Bos_taurus	925	GLAALAYHAGLSDSARDEVQhKWInQDGCQVICATIAFGMGIDKPDVR		972	
Mus_muscul	920	GLAALAYHAGLSDSARDEVQhKWInQDNCQVICATIAFGMGIDKPDVR		967	
Gallus_gal	683	GLAALAYHAGLTDSNRDLVQqKWVnQEGCQVICATIAFGMGIDKPDVR		730	
Danio_reri	923	GIAALAYHAGLSDSdREYVQnKWInQDGCQVMCATIAFGMGIDKPDVR		970	
Arabidopsi	452	KVKTVYYHAGVPAKQRVDVQRKwQtGE	-	VRIVCATIAFGMGIDKADVR	498
Oryza_sati	432	KIKCAHYHAGLAARQRsnVQqKWHSgE	-	VKVICATIAFGMGIDKPDVR	478
Plasmodium	338	GIQALSyHAGLTnNTRKRIQqKWISg	-	KTNILVATIAFGMGIDRkdVS	384
cons	1057	:		* * * * * : . * : * * * . . : : * * * * * * * * * * : * *	1104

Homo_sapie	960	FVIHASLPKSV	EGYYQESGR	AGRDGEISHC	LLFYTYHDV	TRLKRLIM-	1006
Pan_troglo	960	FVIHASLPKSM	EGYYQESGR	AGRDGEISHC	LLFYTYHDV	TRLKRLIM-	1006
Bos_taurus	973	FVIHASLPKSV	EGYYQESGR	AGRDGEISHC	ILFYTYHDV	TRLKRLIL-	1019
Mus_muscul	968	FVIHASLPKSM	EGYYQESGR	AGRDGEISHC	VLFYTYHDV	TRLKRLIM-	1014
Gallus_gal	731	YVIHASLPKSI	EGYYQESGR	AGRDGEMSHC	LLFYYSYSDV	TRLRRLIL-	777
Danio_reri	971	YVIHASLPKSV	EGYYQESGR	AGRDGEISHC	VLFYYSYSDV	IRIKRLIA-	1017
Arabidopsi	499	FVIHNTLSKAV	ESYYQESGR	AGRDGLQAQC	ICLYQKKDFSRV	VCMLR-	545
Oryza_sati	479	FVIHNTMSKSI	ESYYQESGR	AGRDNLPAHC	IVLYQKKDLGRI	VCMLR-	525
Plasmodium	385	FIIHYNLPKSI	ENYYQESGR	CRSGHISFCY	LFYSKEDVEKLS	YIIKT	432

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

Homo_sapie	1007	MEKDGNNHTR-	ETHFNNLYSM	VHYCENITEC	RRIQLLAYFG	EN	1048	
Pan_troglo	1007	MEKDGNNHTR-	ETHFNNLYSM	VHYCENITEC	RRIQLLAYFG	EN	1048	
Bos_taurus	1020	MEKDGNNRHR-	ETHFNNLYSM	VHYCENITEC	RRIQLLAYFG	EN	1061	
Mus_muscul	1015	MEKDGNYHTK-	ETHVNNLYSM	VHYCENITEC	RRIQLLAYFG	EK	1056	
Gallus_gal	778	MEKDGNSHTR-	QTHFNNLYSM	VHYCENNVDC	RRIQLLAYFG	ET	819	
Danio_reri	1018	MDKDGNNQSK-	ATHINNLYSM	VHFCENVAEC	RRIQLLAYFG	EH	1059	
Arabidopsi	546	NGQGRNMDRF-	KSAMAQAKKM	QQYCELKTEC	RQMLLEYFG	ES	587	
Oryza_sati	526	NSGNFKSESF-	KVAMEQAKKM	QTYCELKTEC	RQTLLGHFG	EQ	567	
Plasmodium	433	SFAHLDMH	DVNIIEKKY	EKEIYNLECV	HNLCLIN-	EKCIRSQILSYFG	ET	479

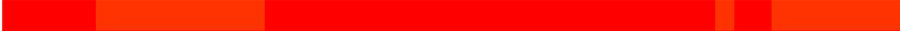
cons 1153 . : . . : : * . * * : * : * * * 1200

Homo_sapie	1049	GFNPDFCKKHP	DVSCDNCC	TKDYKTRDVT	DDVKSIVRFV	QEHSSSQG	1096
Pan_troglo	1049	GFNPDFCKKHP	DVSCDNCC	TKDYKTRDVT	DDVKSIVRFV	QEHSSSQG	1096
Bos_taurus	1062	EFNPHFCKKYP	DVSCDNCY	TKDFKTKDVT	EDVKNIVRFV	QEHSSSQG	1109
Mus_muscul	1057	GFNPDFCKKYP	DVSCDNCC	TKDYKTKDVT	DDVKNIIRFV	QEHSSSPG	1104
Gallus_gal	820	DFNPNFCKDH	PEVICDNC	SRKKDYKSRN	VTDEVKSIIR	FVQHCQVVG	867
Danio_reri	1060	TFNTSFCKEHP	EVICDNCAR	PNKYKSRNVT	DDVKKIARFV	QDNCEKVG	1107
Arabidopsi	588	FDRMICKSSLN-	PCDNCERS	-----	-----	-----	606
Oryza_sati	568	YDRQRCK-	HGCSPCDNC	IKIPS	-----	-----	588
Plasmodium	480	YPNKNLQTN	NTSDHNKQTYK	-----	-----	NQTHVEKYN	508

cons 1201 : . . : : 1248

Homo_sapie	1097	MRNIK	-----	HVGPSGRFTM	NMLVDIFLGSK	1122	
Pan_troglo	1097	MRNIK	-----	HVGPSGRFTM	NMLVDIFLGSK	1122	
Bos_taurus	1110	TRNIK	-----	HIGPSGRFTM	NMLVDIFLGSK	1135	
Mus_muscul	1105	TRNI	-----	GPAGRFTLN	NMLVDIFLGSK	1127	
Gallus_gal	868	GINGN	-----	RNTGSGRYTL	NMMVDIFLGAK	893	
Danio_reri	1108	NRYGK	-----	S-AQQNRLTL	NMLVEIFLGSK	1132	
Arabidopsi	607	-----	-----	-----	-----	606	
Oryza_sati	589	-----	-----	-----	-----	588	
Plasmodium	509	FDTAN	MYHPSDQNK	DNLTD	DEHFCCSFC	YDTKGSRIKIQKVINLYENK	556

cons 1249 1296

Homo_sapie	1123	SAKIQSGIFGKGSAYS	SRHNAERLFKKLILDKILDE	LDYINANDQAIAY	1170	
Pan_troglo	1123	SAKIQSGIFGKGSAYS	SRHNAERLFKKLILDKILDE	LDYINANDQAIAY	1170	
Bos_taurus	1136	SAKIQSGIFGKGSTYS	SRHNAERLFKKLILDRILDE	LDYINANDQAIAY	1183	
Mus_muscul	1128	SAKVKSGIFGKGTTYS	SRHNAERLFKKLILDKILDE	LDYINANDQPIAY	1175	
Gallus_gal	894	SAKIQSGIFGKGAAAYS	SRHNVERLFRKLVLDKILDE	LDYITANDQAVAY	941	
Danio_reri	1133	SARIQTGMFVGVAAYS	SKHNAERLFKKLVLDNVLMED	LDYITNSGQAVAY	1180	
Arabidopsi	607	-----	-----	-----	606	
Oryza_sati	589	-----	-----	-----	588	
Plasmodium	557	GSNI-SQFY	SKGET--	HEYNYLYTNN	GKHKLYDDDTY	
					SPSGE----	
cons	1297					1344

Homo_sapie	1171	VMLGNKAQTVLNGNLK	VDFMETENSSSVKKQKALVA-	KVSQREEMVKK	1217	
Pan_troglo	1171	VMLGNKAQTVLNGNLK	VDFMETENSSSVKKQKALVA-	KVSQREEMVKK	1217	
Bos_taurus	1184	VMLGSKAQTVLNGHLK	VDFMETENSSSVKKQKALVA-	KVSQREEVVKK	1230	
Mus_muscul	1176	VMLGTKAHSVLSGHLK	VDFMETENSSSIKKQKALVA-	KVSQREEVVKK	1222	
Gallus_gal	942	VVLGEKAQAVLNGLLQ	VEFHETENASAIRKQRASVT-	KMSQREEMVKK	988	
Danio_reri	1181	ISAGPKAMSVLNGCMQ	VEFHETESASSIRKHRASVCE	KVSKREEMVKK	1228	
Arabidopsi	607	-----	-----	-----	606	
Oryza_sati	589	-----	-----	-----	588	
Plasmodium	597	-----	-----	EPREK----	601	
cons	1345					1392

Homo_sapie	1218	CLGELTEVCKSLGKVF	GVHYFNIFNTVTLKKLAESLS	SDPEVLLQIDG	1265	
Pan_troglo	1218	CLGELTEVCKSLGKVF	GVHYFNIFNTVTLKKLAESLS	SDPEVLLQIDG	1265	
Bos_taurus	1231	CLGELTEVCKSLGKVF	GVHYFNIFNTVTLKKLAESLS	SDPEVLLQIDG	1278	
Mus_muscul	1223	CLGELTEVCKLLGKVF	GVHYFNIFNTATLKKLAESLS	SDPEVLLQIDG	1270	
Gallus_gal	989	CLGELTDTC	TLGKIFDVHYFNIFSTSTLKKIAETL	SSDAEVLLQIDG	1036	
Danio_reri	1229	CLGELNDLCKKLGKVF	GIHYFNIFSTATLKKIA	-----	1261	
Arabidopsi	607	-----	-----	-----	606	
Oryza_sati	589	-----	-----	-----	588	
Plasmodium	602	--RS	TNYYNKYGDKY	GDKYDDKYDDKYDEKYDDKY-	GDRKLQEGIIYK	
cons	1393					1440

Homo_sapie	1266	VTEDKLEKYGAEVIS	VLQKYSEWTSPAEE-----	DSSPGISLSSSRGP	1307	
Pan_troglo	1266	VTEDKLEKYGAEVIS	VLQKYSEWTSPAEE-----	DSSPGISLSSSRGP	1307	
Bos_taurus	1279	VTEDKLEKYGAEVIP	ILQKYSEWTLPAEE-----	DTSPRRSPSSSRGT	1320	
Mus_muscul	1271	VTEDKLEKYGAEVIP	VLQKYSEWTVPAEE-----	DGSPG-----	ARGA	
Gallus_gal	1037	VTEDKLEKYGAEI	IKVMDKYSEWTTPEDAACQSV	DTAPG-----	SAGT	
Danio_reri	1262	-----	-----	-----	1261	
Arabidopsi	607	-----	-----	-----	606	
Oryza_sati	589	-----	-----	-----	588	
Plasmodium	646	LNNKKIKGY	-----	IPFQSASSIIPKQ	-----	
					IRDKGII-----	
cons	1441					1488

Homo_sapie	1308	GRSAAEELDEEIPVSSHYFASKTRNERKRKKMPASQRSKRRKTASSGS	1355
Pan_troglo	1308	GRSAAEELDEEIPVSSHYFASKTRNERKRKKMPASQRSKRRKAASSGS	1355
Bos_taurus	1321	RKNTPEESDEGAPISSHYFANKTRNERKRKRMPASQKAKRRRTGFSGS	1368
Mus_muscul	1308	PEDTEEE-EEEAPVSSHYFANQTRNERKRKKMSATHKPKRRRTSYGGF	1354
Gallus_gal	1080	-PGSEEEAADDV-VTSSYFGGNANQRRKRRLPNSGESKRKKTSSGGS	1125
Danio_reri	1262	-----	1261
Arabidopsi	607	-----	606
Oryza_sati	589	-----	588
Plasmodium	675	-----EVMKELEKREELNEKTKNDQEKHKVNKMNLFKSNMNVKRK	716
cons	1489		1536

Homo_sapie	1356	KAKGGSATCR-KISSKTKSSIIIGSSSASHTSQATSGANSKLGIMAPP	1402
Pan_troglo	1356	KAKGGSATCR-NISSKTKSSIIIGSSSASHTCQATSGANSKLGIMAPP	1402
Bos_taurus	1369	RTKGGSNTR-RIPSKTKPSNIIGPSSTSHSSQAASGVSRKLGIMAPP	1415
Mus_muscul	1355	RAKGGSTTCR-KTTSKSKFYGVTSRSASCASQATSSASRKLGMAPP	1401
Gallus_gal	1126	Q-QFYSKGARYRRARRAPGSR---AAAPAQSSALRGAGARLGMAPP	1168
Danio_reri	1262	-----	1261
Arabidopsi	607	-----	606
Oryza_sati	589	-----	588
Plasmodium	717	HVF-----SS-----FKIPRKI-----	728
cons	1537		1584

Homo_sapie	1403	KPINRPFLKPSYAFS	1417
Pan_troglo	1403	KPINRPFLKPSYAFS	1417
Bos_taurus	1416	KPINRPFLKPSYAFS	1430
Mus_muscul	1402	KPVNRTFLRPSYAFS	1416
Gallus_gal	1169	KPSSRHFLQPSYAVL	1183
Danio_reri	1262	-----	1261
Arabidopsi	607	-----	606
Oryza_sati	589	-----	588
Plasmodium	729	-----	728
cons	1585		1599