

T-COFFEE, Version_5.31Fri Oct 26 17:01:36 2007

Cedric Notredame

CPU TIME:67 sec.

SCORE=27

*

BAD AVG GOOD

*

ceTFB1	:	33
hsTFB1	:	33
dmTFB1	:	29
agTFB1	:	33
amTFB1	:	33
xlTFB1	:	33
trTFB1	:	34
ciTFB1	:	31
hsTFB2	:	30
rnTFB2	:	29
dmTFB2	:	19
ptTFB2	:	31
mmuTFB2	:	29
btTFB2	:	29
trTFB2	:	28
tnTFB2	:	27
scTFB	:	18
spTFB	:	19
klTFB	:	15
egTFB	:	19
caTFB	:	19
ddTFB	:	31
tbTFB	:	27
lmTFB	:	27
cons	:	27

ceTFB1	1	-----	0
hsTFB1	1	-----	0
dmTFB1	1	MALVTTLSLEESLNSRICVRS SENGARSGIAENAVF PLSSNYALCNAITEK	51
agTFB1	1	-----	0
amTFB1	1	-----	0
xlTFB1	1	-----	0
trTFB1	1	-----	0
ciTFB1	1	----- MKISHRLL -----	8
hsTFB2	1	-----	0
rnTFB2	1	-----	0
dmTFB2	1	-----	0
ptTFB2	1	-----	0
mmuTFB2	1	-----	0
btTFB2	1	-----	0
trTFB2	1	-----	0
tnTFB2	1	----- MYRKGFKWSSCPRC ----- PFILYTLQLQTSIMST -----	29
scTFB	1	-----	0
spTFB	1	-----	0
klTFB	1	-----	0
egTFB	1	-----	0
caTFB	1	MRILTKAR ----- AFNPHLA -----	15
ddTFB	1	-----	0
tbTFB	1	----- MSRRFLNRSQ -----	10
lmTFB	1	-----	0
cons	1	----- ----- -----	51

ceTFB1	1	-----	0
hsTFB1	1	-----	0
dmTFB1	52	LLWLTCRQVVAHCAWK SALRCRTSRRTRATN ENFIILKSARKARKKGRLLAA	102
agTFB1	1	-----	0
amTFB1	1	-----	0
xlTFB1	1	-----	0
trTFB1	1	-----	0
ciTFB1	9	NK -----	10
hsTFB2	1	-----	0
rnTFB2	1	-----	0
dmTFB2	1	-----	0
ptTFB2	1	-----	0
mmuTFB2	1	-----	0
btTFB2	1	-----	0
trTFB2	1	-----	0
tnTFB2	30	KMCMVVELMRSACC ----- HTVRSRSLRRPTML -----	58
scTFB	1	-----	0
spTFB	1	-----	0
klTFB	1	-----	0
egTFB	1	-----	0
caTFB	16	-----	15
ddTFB	1	-----	0
tbTFB	11	----- VTSASA ----- ALLYSRRGVSKPSTD -----	31
lmTFB	1	----- MHGASGSLLPQA -----	13
cons	52	----- ----- -----	102

ceTFB1	1	-----	0
hsTFB1	1	-----	0
dmTFB1	103	FI MSASEQGPKI -- KYGESAPKLDKAQLQFMKLIIEEQNLDRVQKLKRIRRN	151
agTFB1	1	-- MSASEGPSKVEFKIEESGRKLLKKAEVDFMRLIEQQNLQRVQKLQRQRN	49
amTFB1	1	-----	0
xlTFB1	1	-----	0
trTFB1	1	-----	0
ciTFB1	11	-----	10
hsTFB2	1	-----	0
rnTFB2	1	-----	0
dmTFB2	1	-----	0
ptTFB2	1	-----	0
mmuTFB2	1	-----	0
btTFB2	1	-----	0
trTFB2	1	-----	0
tnTFB2	59	-----	58
scTFB	1	-----	0
spTFB	1	-----	0
klTFB	1	-----	0
egTFB	1	-----	0
caTFB	16	-----	15
ddTFB	1	-----	0
tbTFB	32	-----	31
lmTFB	14	-----	13

cons 103  153

ceTFB1	1	-----	MASAS	5	
hsTFB1	1	-----	MAA	SGKLSTC	10
dmTFB1	152	NLLTAGALGVSVLAIYGY SIFSVQQEKFLDD FE E P K K M A Q P S A	RVLQSGM	201	
agTFB1	50	NKLTGIALGGTVLGIYLY SMLS VK Q E K F L D D F E E P M S A S T K I S K	KALTSTGI	100	
amTFB1	1	-----	MSTI	4	
xlTFB1	1	-----	MAT	PGALAKF	10
trTFB1	1	-----	MSA	SQKLASL	10
ciTFB1	11	-----	FRPKLQL	NHDLPTQ	24
hsTFB2	1	-----	-----	MWIPVV	6
rnTFB2	1	-----	-----	MRGLAM	6
dmTFB2	1	-----	-----	-----	0
ptTFB2	1	-----	-----	MWIPVV	6
mmuTFB2	1	-----	-----	MRGPAM	6
btTFB2	1	-----	-----	MWVPGA	6
trTFB2	1	-----	-----	-----	0
tnTFB2	59	-----	SMA	PSCLSAV	68
scTFB	1	-----	-----	-----	0
spTFB	1	-----	-----	M	1
klTFB	1	-----	-----	MTK	3
egTFB	1	-----	-----	-----	0
caTFB	16	-----	-----	-----	15
ddTFB	1	-----	M	TIKNLTT	8
tbTFB	32	-----	AA	APPLPPL	40
lmTFB	14	-----	AA	PVALPPL	22

cons 154  204

ceTFB1	6	RLPP	---	LPALRDFI	-----	-----	-----	17			
hsTFB1	11	RLPP	---	LPTIREII	-----	-----	-----	22			
dmTFB1	202	RLPP	---	MPTIRELV	-----	-----	-----	213			
agTFB1	101	RLPP	---	LPTIRDLV	-----	-----	-----	112			
amTFB1	5	RLPP	---	LPSIKDVL	-----	-----	-----	16			
xlTFB1	11	RLPP	---	LPTIGEIV	-----	-----	-----	22			
trTFB1	11	RLPP	---	LPTVGELI	-----	-----	-----	22			
ciTFB1	25	AIPP	---	MPTSSELL	-----	-----	-----	36			
hsTFB2	7	GLPR	---	RLRLSALAGAGRFCILG	-----	SEAA	TRKHLPARNHC	42			
rnTFB2	7	RLPP	---	RLALSVL	LAGRGPSCILG	-----	SGAA	TRKDWQERNRR	42		
dmTFB2	1	MLPL	---	RCSWS	---	FAR	---	ANY	STKKELVTRYSG	27	
ptTFB2	7	GLPR	---	RLRLSALAGAGRFCILG	-----	SEAA	TRKHLPARNHC	42			
mmuTFB2	7	RLPP	---	RIALSALA	---	RG	PSCILG	---	SGAA	TRKDWQTRNRR	41
btTFB2	7	GIPS	---	RLTLSAFT	---	RAARF	CVLN	---	SG	VARWKDVPAENCR	42
trTFB2	1	-----	-----	-----	-----	-----	-----	-----	-----	0	
tnTFB2	69	GLPGVHR	---	RAYSLDPLSSGSGRTTLG	---	SFTPPHSAER	---	SSP	SSPSSALTHRNL	119	
scTFB	1	MSVP	---	IPGIKD	IS	-----	-----	-----	-----	12	
spTFB	2	KLPK	---	ILYDAAAF	G	---	---	GPR	STGFV	22	
klTFB	4	SSFL	---	KSVLPLAN	---	-----	-----	-----	-----	15	
egTFB	1	-----	-----	---	MSSASKF	---	---	SKQ	SFLEACL	17	
caTFB	16	-----	-----	-----	-----	-----	-----	-----	-----	15	
ddTFB	9	SLPP	---	MPKIQEII	---	-----	-----	-----	-----	20	
tbTFB	41	RCPGGPR	---	-----	-----	---	---	VKA	EGLKQLF	57	
lmTFB	23	RCPGGPR	---	-----	-----	---	---	VKA	EGIKQLY	39	
cons	205	-----	---	-----	---	-----	---	-----	---	255	

ceTFB1	18	-----	---	HMYRLRAKKIL	-----	---	---	SON	YLMDMNITRKI	42	
hsTFB1	23	-----	---	KLLRLQAANEL	-----	---	---	SON	FLLDLRLTDKI	47	
dmTFB1	214	-----	---	KLYRLQARKQL	-----	---	---	SON	FLMDERLTDKI	238	
agTFB1	113	-----	---	KLYQLRAIKQL	-----	---	---	SON	FLMDERLTDKI	137	
amTFB1	17	-----	---	KIYRLRAMKEL	-----	---	---	SON	FILNQNLADKI	41	
xlTFB1	23	-----	---	KLFNLRAEKQL	-----	---	---	SON	FLLDLKLTDKI	47	
trTFB1	23	-----	---	KLYNLRAEKQL	-----	---	---	SON	FLLDLKLTDKI	47	
ciTFB1	37	-----	---	KMYNVRARKQL	-----	---	---	SON	FLLDPLITNRF	61	
hsTFB2	43	GLSDSSPQLWPEPDF	---	RNPPRKASKAS	---	LDFKRYVTDRR	---	---	---	LAETL	84
rnTFB2	43	SFSDLYTQPLPDCDFE	---	EESSSWTHKSR	---	SEPTRHIACKK	---	---	---	SARNLV	85
dmTFB2	28	DFPE	---	---	KLLNRKQKVP	---	---	---	---	THMYIANSEAAARI	55
ptTFB2	43	GLSDSSPQLWPEPDF	---	RNPP	---	RKASLDFKRYVTDRR	---	---	---	LAETL	81
mmuTFB2	42	GFSDFNIEPLPDS	---	LDLEESSPWTS	---	SRNRSEPTRHIACKK	---	---	---	AARNLV	84
btTFB2	43	GLYDFHTQLKPDVEF	---	GKLSRRLYKSRSE	---	---	---	---	---	TKRYVTSPRVAETV	84
trTFB2	1	-----	---	-----	---	---	---	---	---	MRHFIVNPDLAKLI	14
tnTFB2	120	AVAVQGQRRLCRYD	---	FLDLGE	---	VEENV	---	RAQACKK	---	IRHFIVDPDLAKLV	166
scTFB	13	-----	---	KLKFFYGFKYL	---	WNPT	---	---	---	VYNKI	32
spTFB	23	-----	---	KILNLNGRSSY	---	---	---	---	---	KSSYLVNQNLMD	47
klTFB	16	-----	---	KIHTSYGSQFEKNPK	---	---	---	---	---	VINQI	35
egTFB	18	-----	---	AVKFSYGR	---	LLHSPT	---	---	---	AIELA	37
caTFB	16	-----	---	EMFSNKIPYYY	---	---	---	---	---	SRAHMADPEACQKI	40
ddTFB	21	-----	---	RIFGLSAKQQL	---	---	---	---	---	SONFLIDKNITDKI	45
tbTFB	58	-----	---	KVPHAGYLAKY	---	---	---	---	---	GQRFILNLKLTHQV	82
lmTFB	40	-----	---	KVPHAGFLAKY	---	---	---	---	---	DQRFMLNLKLTHQL	64
cons	256	-----	---	-----	---	-----	---	-----	---	306	

ceTFB1	43	AK-HA-----KVIEKDWVIEIGPGGGITRAILEAG--ASRLDVVEIDNR	84
hsTFB1	48	VR-KA-----GNLTNAYVYEVGPGGGITRSILNAD--VAELLVVEKDTR	89
dmTFB1	239	VK-SA-----GRIDPRDLVLEVGPGGGITRSILRRH--PQRLLLVEKDPR	281
agTFB1	138	VR-AA-----GNIRDHYVLEVGPGGGITRSIIRQN--PRHLVVVEKDRR	179
amTFB1	42	IK-KT-----GNLNDCHVLEIGPGGALTRSILKCQ--PKKLIVVEKDKR	83
xlTFB1	48	VR-RA-----GNLQNAVCEVGPGGGITRSILNAG--VEELLVVEKDTR	89
trTFB1	48	VR-QA-----GCLKDAHVCEVGPGGGLTRSILNAG--AADLLVVEKDSR	89
ciTFB1	62	VLCGA-----KDLAGHHVCEVGPGGPITRSILQRK--PERLTVVEKDHR	104
hsTFB2	85	AQ---IYLGKP--SRPPHLLLECNPGPGILTQALLEAGA---KVVVALESDKT	128
rnTFB2	86	R---DLLEHQ--NPSHQLILECNPGPGILTGALLKAGA---RVVAFESEKM	128
dmTFB2	56	NQ-Y--LEPHFQS--SGCDTVMELNSGAGYFTRHLLDRESQFRRIILLESMDH	103
ptTFB2	82	AQ---IYLGKP--SRPPHLLLECNPGPGILTQALLEAGA---KVVVALESDKT	125
mmuTFB2	85	R---DLLEHQ--NPSRQIILECNPGPGILTGALLKAGA---RVVAFESEKT	127
btTFB2	85	VR---VLRGK--RKAGQLILECNPGPGVLTTRALLESGA---RVIALESDKN	127
trTFB2	15	T---QHLLP--ENAATIIFECNPGPGVLTTRTLLNSGV---QKVVVALEGDKV	57
tnTFB2	167	T---QHLOP--DNATTIIFDCNPGPGVLTTRTLLNSGI---QKVVVALEGEKF	209
scTFB	33	FD-KLDLTKTYKHPEELKVLDLYPGVGIQSAIFYNKYC-----PRQYS	74
spTFB	48	LV-KSNLLKEY--NSEKMTILEMAPGPGVTTTSLFNIFYQ--PKSHVVLESREV	95
klTFB	36	LD-KLNLESYY--KESLQILDIYAGPLIQSVILNERLK-----PKKHV	76
egTFB	38	YK-RLNLQEHY--DMSKVQVLELYPGTGLPSYIFHDI-----	71
caTFB	41	LD-KLDLKSXY--DGSKLDIVDVNPGYGLFSTML--NYELKPRNHILIENTKER	88
ddTFB	46	CK-KS-----GGFDDCTVIEVGAGPGGLTRSLLTSG--AKKVIAVEMDPR	87
tbTFB	83	AA-LLSRTT--L RTPDKLLELGPAGALTRSLLTRP--CVGVVLGIEQDER	128
lmTFB	65	VS-YLSRTT--L TTPDKVLVELGPGVGSLTRSLLTRP--CVGVVLGIEVDER	110

cons 307 : : . * : : 357

ceTFB1	85	FIPPLQHLAE--AADS--RMFIHHQDA-----LRTEIGDIWKN---	118
hsTFB1	90	FIPGLQMLSD--AAPG--KLRIVHGDV-----LTFKVE-----	118
dmTFB1	282	FGETLQQLKE--CASPLNIQFDIHYDDI-----LRFN-----	311
agTFB1	180	FMPTMEMLAEV--AQPFM--RMDIVQGDI-----LDYRVA-----	210
amTFB1	84	FEPTLEMLADAFETING--KMEIIFDDI-----MKINMS-----	115
xlTFB1	90	FIPGLKMLNE--ASGG--KVRTVHGDV-----LTYRMD-----	118
trTFB1	90	FIPGLKLLSE--AAPG--RVRIVHGDV-----LTYRMD-----	118
ciTFB1	105	FLPMLKYVAD--VSND--RMTIVHGDV-----LKYDLS-----	133
hsTFB2	129	FIPHLES LGK--NLDG--KLRVIHCDF-----FKLDPRS-----	158
rnTFB2	129	FIPHLES LRK--NADG--ELQVVHCDF-----FKIDPRY-----	158
dmTFB2	104	FMPKIQELHT--LYPE--RVKVRQGDF-----VNLWKLVMYMDKMDG	140
ptTFB2	126	FIPHLES LGK--NLDG--KLRVIHCDF-----FKLDPRS-----	155
mmuTFB2	128	FIPHLEPLQR--NMDG--ELQVVHCDF-----FKMDPRY-----	157
btTFB2	128	FIPELKSLGN--SVNG--RLEVIYCDF-----FKLDPRN-----	157
trTFB2	58	FLSELQALEV--QLDG--QLEVVNCDF-----FKLDPIG-----	87
tnTFB2	210	FLPELQDLEI--QLDG--QLEVVHCDF-----FKLDPIG-----	239
scTFB	75	LLEKRSSLYK--FLNA--KFEGSPLQI-----LKRDPYD-----	104
spTFB	96	FSKPLQKLCT--LSDG--RIKWVHQDG-----YYW-----	121
klTFB	77	LLEDRLKFVE--LYQA--TLKDHPSMV-----N--YNKNPYK-----	107
egTFB	72	YKPKLQVLM E--SKPA--YAKVIEQHLLLDN I KLHKEDPYM-----	109
caTFB	89	CVTSLSSIIN--KLVE--ETGH-----NSNFTLYKKDSFI-----	119
ddTFB	88	FYPALKMLEE--SSGG--RMSLIMANM-----MDVDEA-----	116
tbTFB	129	FNGHLEQIRQ--YTSG--KFQWTNGDV-----LRINELEIVEESLYA	165
lmTFB	111	FNPHEQIRN--YTNN--KFQWVTADV-----LKVDELELELLKSAFP	147

cons 358 . 408

ceTFB1	119	-----	-----	118		
hsTFB1	119	-----	-----	118		
dmTFB1	312	-----	-----	311		
agTFB1	211	-----	-----	210		
amTFB1	116	-----	-----	115		
xlTFB1	119	-----	-----	118		
trTFB1	119	-----	-----	118		
ciTFB1	134	-----	-----	133		
hsTFB2	159	-----	-----	158		
rnTFB2	159	-----	-----	158		
dmTFB2	141	-----	-----	140		
ptTFB2	156	-----	-----	155		
mmuTFB2	158	-----	-----	157		
btTFB2	158	-----	-----	157		
trTFB2	88	-----	-----	87		
tnTFB2	240	-----	-----	239		
scTFB	105	-----	-----	104		
spTFB	122	-----	-----	121		
klTFB	108	-----	-----	107		
egTFB	110	-----	-----	109		
caTFB	120	-----	-----	119		
ddTFB	117	-----	-----	116		
tbTFB	166	GFAQQHRRKPAADARERASSD	GNKSDGGEACSSG	TKDSGCC	TDDFYC	212
lmTFB	148	HFVKANIRRPPSPGQETWAAN	SAADPAASSGSQRVTF	TDDAGEN	DADGC	196
cons	409					459

ceTFB1	119	-----	-----	ETARP	-----	123	
hsTFB1	119	-----	-----	KAFSE	-----	123	
dmTFB1	312	-----	-----	-----	IE	313	
agTFB1	211	-----	-----	EAFPD	-----	215	
amTFB1	116	-----	-----	NLFPS	-----	120	
xlTFB1	119	-----	-----	RAFPK	-----	123	
trTFB1	119	-----	-----	RGFPR	-----	123	
ciTFB1	134	-----	-----	QCFPQ	-----	138	
hsTFB2	159	-----	GGVIKPPAMSSRGLFKN	-----	-----	175	
rnTFB2	159	-----	QELVRPD	VNSHTIFQN	-----	174	
dmTFB2	141	-----	-----	GSRVADLLSD	-----	150	
ptTFB2	156	-----	GGVIKPPAMSSRGLFKN	-----	-----	172	
mmuTFB2	158	-----	QEVVRPD	VSSQAIFQN	-----	173	
btTFB2	158	-----	HGMVTPPVMT	SDMLFQY	-----	174	
trTFB2	88	-----	SGNLKPPAMFTDKLFTD	-----	-----	104	
tnTFB2	240	-----	SGNLKPPAMFTDKLFTD	-----	-----	256	
scTFB	105	-----	WSTYSNL	IDEERIF	-----	118	
spTFB	122	-----	QTYED	VYVSKVL	-----	133	
klTFB	108	-----	WETFLEM	TNEDRVL	-----	121	
egTFB	110	-----	WESFVSL	IDKIM	-----	123	
caTFB	120	-----	WETYNDL	IDKDKLI	-----	133	
ddTFB	117	-----	-----	KLLRD	-----	121	
tbTFB	213	EDAPLRNVQREKILRKRFGKYAAF	NHDTAS	GQNSGSAAPSSDVFGCAF	SSE	263	
lmTFB	197	EGAPLRSAQRRERLLRQRRARQPY	QHSDDTH	CRGAEGAADPETA	-----	ASP	242
cons	460					510	

ceTFB1	124	-----ESVDWHDS-----NLPAMHVIGNLPFNIASPLII--KYLRDMSYRRG	163
hsTFB1	124	---SLK--RPWE-----DPPNVHIIIGNLPFSVSTPLII--KWLENISCRDG	163
dmTFB1	314	QHI-----PDTSQRIHLIGNLPFAISTRLLI--NWLDDLAARRG	350
agTFB1	216	---CPP--HDWMD-----RKRAPVHLIGNLPFAISTRLLI--NWLRDMSLRTG	256
amTFB1	121	---TEI--KAWT-----EKCPRIKLIIGNLPFNVSTPLII--KLLHAISEKRD	160
xlTFB1	124	---HLI--KSWD-----DEPPNVHIIIGNLPFSVSTPLII--KWLEQVADRTG	163
trTFB1	124	---DIS--KKWH-----EDPPNLHIIIGNLPFSVSTPLII--KWLENIANQSG	163
ciTFB1	139	---ELA--KDWH-----KASPPFIVFGNLPFNVSLPLIF--KWFSEQISRKDG	178
hsTFB2	176	---LGIEAVPWT-----ADIPLKVVGMPFSRGEKRALW--KLAYDLYSCTS	216
rnTFB2	175	---LGIKAVPWS-----AGVPIKVFVGILPNKHERRLLW--KILFDLYSCES	215
dmTFB2	151	---VPOKAFT-----DDINMLVFGAV---GSPFFK--HLINSLIFQTS	186
ptTFB2	173	---LGIEAVPWT-----ADIPLKVI GMPFSRGEKRALW--KLAYDLYSCTS	213
mmuTFB2	174	---LGIKAVPWS-----AGVPIKVFVGILPYKHERRILW--KILFDLYSCES	214
btTFB2	175	---LGVKAHPWK-----KGFPLKVVGILPAKTERNTLW--KILHDLYSCSS	215
trTFB2	105	---LGISEASWT-----DDIPVKVVGVL PMSNERGMLL--KMVYALFERLS	145
tnTFB2	257	---LGISEASWT-----DDIPVKVVGMLPLRNERGMLL--KMVYALFERLS	297
scTFB	119	-----VPEVQSSDH-----INDKFLT VANVTGEGSEGLIM--QWLSCIGNKNW	159
spTFB	134	-----DPRIQTEEEQKLSPHRELLFFAHLPHGYAGLLFVSQILDFLSARDW	179
klTFB	122	-----TPSMQKRDH-----IHNEFLIAANLTNKKGEQLYV--QYLQCIANQNW	162
egTFB	124	-----QPEVQTRDH-----IHDSFIVMGNLTDKRGEQLYM--QYLQCIANKNW	164
caTFB	134	-----QPQIKSFDT-----PHDELLILANWTGNKEESVLA--QWIKCCGHRNW	174
ddTFB	122	---AGAETT NWK-----DKSKVKIIGNLPFNVGTHLML--KWIRQIAPRQG	162
tbTFB	264	SAAFEVSDRWWS-----DGD AKLEVIANLPFNII TELLM--RYAVDCSRKQN	308
lmTFB	243	NAAFVDTNHRWS-----NGNAKVEVIANLPFEIIT ELLM--RYAADCSQHRG	287

cons	511		561
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ceTFB1	164	VWQYGRVPLTLTFQLEVAKRLCSPIA--CDTRSRLSISIMSQYVAEPMVFQI	212
hsTFB1	164	PFVYGRTOQMTLTFQKEVAERLAANTG--SKQRSRLSVMAQYLCNVRHIFTI	212
dmTFB1	351	AFRRIDTCMTLTFQQEVAERICAPVG--GEQRCRLSVMSQVWTEPVMKFTI	399
agTFB1	257	AWSYGRASLTLTFQKEVAERIVAPIL--SDQRCRLSVMNQIWSTPELRFMI	305
amTFB1	161	AWTFGKTRMTLTFQKEVAERLIAQPL--DVQRCRLSVMAQAWTHPVLHFII	209
xlTFB1	164	PFTYGRTOQMTLTFQQEVAERLTASTK--NKQRSRLSISIMSQYLCNVKNCFTI	212
trTFB1	164	PFAYGRTRLTLTFQKEVAERLTASTG--SRQRSRLSISMAQYLCNTHSCFTI	212
ciTFB1	179	MFKLGRIPVLTLTFQREVVERFLAQTG--DKQRCRLSVSAQNFCDIDYKFII	227
hsTFB2	217	IYKFGRIEVMNFIGEKEFQKLMADPGN--PDLYHVL SVIWLQ LACEIKVLHME	266
rnTFB2	216	IYRYGRVELNMFISEKEFRKLIATPKR--PDLYQV LGVLWQVACEIKFLHME	265
dmTFB2	187	LFNLGRCEMILAMPPIYIHLTCNNEIGYLIYRSTSVLFQILFEHKFIAKV	237
ptTFB2	214	IYKFGRIEVMNFIGEKEFQKLMADPGN--PDLYHVL SVIWLQ LACEIKVLHME	263
mmuTFB2	215	IYRYGRVELNMFVSEKEFRKLIATPKR--PDLYQVM AVLWQVACDVKFLHME	264
btTFB2	216	VYKYGRAELNLFISEKECRKLTANPQT--PALYQSL SVLGQTACGIKVLCTE	265
trTFB2	146	IYRYGRIELNLFMSEKEYLKLSSQPGD--MMNYRASSVLWQMACDIELLHKE	195
tnTFB2	298	FYRYGRIELNLFISEKEYLKLTSRPGD--MMNYRAFSVLWQMACDIELLHKE	347
scTFB	160	LYRFGKVKMLLWMPSTTARKLLARPG--MHSRSKCSVVREAFDTDKLIAIS	208
spTFB	180	LGIFGRVRVLLWLPCSPVTLLGSRG--FSKRSKTSVFREAFDTSRVLAAS	228
klTFB	163	MQRFGLVKMLVWIPQQTARKLFAFVS--NKDRNRLTLLSELATNTKLVATS	211
egTFB	165	MQRFGLV RMLFVWPQT TAIKLLSPCG--FKSRSRCSVITEAVTDTRLIATT	213
caTFB	175	LMKYGKVRMVFIFAPSVSAMKFLGEPG--FKKRRRTGLKRDLYTDSRLIGVV	223
ddTFB	163	LYEFGRVPMYLMFQKELSDRICAQVG--SEEYSRLSVMVQQMCQPSIVYSI	211
tbTFB	309	LFVFGRVPLHVFTQQEVAECIIAPAG--SIHFSRLSVLCQCFFHTQLLRTF	357
lmTFB	288	LFAFGRVPIHVFTQREVAERILAPAG--SVQFSRLSVLCQCFFHVRLKQTF	336

cons	562		612
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ceTFB1	213	SGS-CF	-----	-----	-----	VPRPQVDVGVVRFV	--P	232	
hsTFB1	213	PGQA	-----	-----	-----	FVPKPEVDVGVVHFT	--P	232	
dmTFB1	400	PGKA	-----	-----	-----	FVPKQVDVGVVVKLI	--P	419	
agTFB1	306	SGRA	-----	-----	-----	FVPKPEVDVGVVTIV	--P	325	
amTFB1	210	PGTA	-----	-----	-----	FIPKPKVDVGLVTFV	--P	229	
xlTFB1	213	PGRA	-----	-----	-----	FIPKPKVDVGVVHLT	--P	232	
trTFB1	213	PGRA	-----	-----	-----	FVPKPEVDVGVVHFT	--P	232	
ciTFB1	228	AGGS	-----	-----	-----	FVPPPKVEVGVVKIV	--P	247	
hsTFB2	267	PWS-SF	DIYTRKGPLE	-----	NPKRRELLD	-----	QLQQKLYLIQMI	--P	303
rnTFB2	266	PWS-SF	SVHAENGHLE	-----	KSKHSESLN	-----	LLKQNLVLRMT	--P	302
dmTFB2	238	PRE-DFL	PQQMAYSPTK	-----	SSKLGKVQS	-----	INPEYLVLVKFT	--P	275
ptTFB2	264	PWS-SF	DIYTRKGPLE	-----	NPKRRELLD	-----	QLQQKLYLIQMT	--P	300
mmuTFB2	265	PWS-SF	SVHTENGHLE	-----	KSKHGESVN	-----	LLKQNLVLRMT	--P	301
btTFB2	266	PSS-LF	DTYAIKGELE	-----	KQRHRE	-----	SLEQNLCLVQLT	--P	299
trTFB2	196	SWD-SF	VMSSRPR	-----	IRSTKSK	-----	FPNDSLCLVRLR	--P	227
tnTFB2	348	SWE-SF	VTSSRRS	-----	VRSPKKN	-----	LPNDNLCLVRLR	--P	379
scTFB	209	DANELK	GFDSQCIEEW	-----	DPILFSAAE	-----	IWPTKGKPIALVEMD	--P	249
spTFB	229	ESTLQKLCMGYSKEAKENY	QISPNPLLVSPPT	-----	ITSEPHKEDLTLVEMCSKP	-----	-----	-----	279
klTFB	212	ENS-VK	KFLPDCIEKF	-----	DPVIPSND	-----	KSPDDLSLVEIN	--P	248
egTFB	214	PDNL-A	SFGPGVLDKH	-----	DP	-----	LILPENKTDYALLEVL	--P	247
caTFB	224	NSEKAP	GLGYDARVLRD	-----	QPVLLEPSS	-----	AHRDEDYSVIEIS	--P	264
ddTFB	212	PGT-AF	-----	-----	-----	VPPPKVDASVVAIE	--P	231	
tbTFB	358	REMT	-----	-----	-----	YYPKTAVLGALITLQ	--P	377	
lmTFB	337	VDQT	-----	-----	-----	YYPRTVEVGAMLTLE	--P	356	
cons	613						. : . *	663	

ceTFB1	233	RKTPL	-----	VNTSFEVLEKVC	RQVFHYRQKYVT	KGLKTLYPEE	-----	LEDELS	277
hsTFB1	233	LIQPK	-----	IEQPFFKLVEK	VVQNVFQFRRKY	CHRGLRMLFPEA	-----	QRLEST	277
dmTFB1	420	LKRPK	-----	TQLPFHLVERV	VRHIFSMRQKYC	RRGYGTLLPPE	-----	DREEVA	464
agTFB1	326	LQTPL	-----	TQVHFDTVEK	VVRHIFSMRQKY	CRRGVANLYPPA	-----	VREELT	370
amTFB1	230	LTIPR	-----	TKHEFSIFEK	VTRHIFSFRRQY	GIRGVETLFPLE	-----	YRTELA	274
xlTFB1	233	FVQPK	-----	IEQPFFKLVEK	VVRCIFQFRRKY	CHHGVSILFPEE	-----	IRIQLT	277
trTFB1	233	LVKAQ	-----	IQQPFFKLVEK	VVRNVFQFRRKH	CHKGIEKLFPEA	-----	CRPEMT	277
ciTFB1	248	KKTFD	-----	INLPFKKIDY	VVKHTMHRKSKY	CKHSVKTMFPFK	-----	RSDLV	291
hsTFB2	304	RQNLFTKNLTPMNYN	IFFHLLKHC	FGRRSATVIDHLRSLT	-----	-----	-----	PLDAR	348
rnTFB2	303	RRTLFTENLSPLNYDM	FFHLVKHCF	GKRNAPIIHHLRSLS	-----	-----	-----	TVDPI	347
dmTFB2	276	RNLHELCSQ	-DLPALWFFIKQNY	VSRNRRIIPNLEKVV	-----	-----	-----	PGCGP	319
ptTFB2	301	RQNLFTKNLTPMNYN	IFFHLLKHC	FGRRSATVIDHLRSLT	-----	-----	-----	PLDAR	345
mmuTFB2	302	RRTLFTENLSPLNYD	IFFHLVKHCF	GKRNAPIIRHLRSLS	-----	-----	-----	TVDPI	346
btTFB2	300	HRNLFTGTLTPFN	YDVFFHMLRQC	FMKRNAKLIDHLP	SLSL	-----	-----	PIDAV	344
trTFB2	228	HANLFSAGLTSSNAST	LLMMVKQCLAKR	KVKLIDRLNLWS	-----	-----	-----	PDSGS	272
tnTFB2	380	RADLFSAGLTSPSNAST	LLMMVKQCLAKR	KVKLIDRLNLWS	-----	-----	-----	PDSGS	424
scTFB	250	IDFD	-----	FDVDNWDYVTR	HLMILKR	TPLNTVMDSLGHGGQQ	YFNSRI	293	
spTFB	280	QDKQ	-----	LSIPVFE	SIVRILLTCKAT	SLSKSIYYLGP	AETLLPS	321	
klTFB	249	RDHS	-----	IDLDHWF	FVTQKLMILKSK	PVEEMIEILGHG	ARDWFISRL	292	
egTFB	248	LNHN	-----	MKLEYWDY	CMQRLLVCKST	PLEDILEVLGHG	ASDFLKRI	291	
caTFB	265	GKY	-----	TASQIENIEH	FLSAIYLTN	-KKLVD	ILPTLAPGAMYM	303	
ddTFB	232	RISPLGD	-EPVKDHHYF	EFVCRELFS	QRRKLSNTIK	TLGKDAESL	-----	276	
tbTFB	378	RAVPLLPGLDAAT	LIHFTDLLMRP	-GQRGMTVYKAL	QQHV	-----	-----	PPEVA	421
lmTFB	357	RSVPLAHGLSASS	LIHFTNLLMKP	-GLRAATVHKSL	SRFA	-----	-----	PAELV	400
cons	664							714	

ceTFB1	278	DDLKCRIDPTTTS	-----I	293			
hsTFB1	278	GRLLELADIDPTLRP	-----R	293			
dmTFB1	465	EKLFQRAEVQDTRLRP	-----F	480			
agTFB1	371	EQTFRADVDPLARS	-----F	386			
amTFB1	275	QMMYKLSDLNPQTRP	-----V	290			
xlTFB1	278	EQMLRLADVDPTRLRP	-----T	293			
trTFB1	278	QEVQRADVDPALRP	-----T	293			
ciTFB1	292	DEIFRKSGVDPLTRS	-----N	307			
hsTFB2	349	-DILMQIGKQEDEKV	-----V	363			
rnTFB2	348	-NILRQIRKRPGDTA	-----A	362			
dmTFB2	320	-RLIINPKSSESVTP	IYPDEL	PKKLPQYSCQSTT	MSTRNYYPGINIYTQF	G	369
ptTFB2	346	-DILMQIGKQEDEKV	-----V	360			
mmuTFB2	347	-NILRQIRKNPGDTA	-----A	361			
btTFB2	345	-HILKQIKKKKDV RV	-----V	359			
trTFB2	273	-KLLAEMGMQEDILT	-----G	287			
tnTFB2	425	-KLLAEMGMQEDILT	-----G	439			
scTFB	294	-TDKDLLKKCPIDL	-----T	307			
spTFB	322	---FTQCGINIDMPV	-----G	334			
klTFB	293	--DPVLLKKKPYEL	-----T	305			
egTFB	292	--DPELLKKKPMQL	-----T	304			
caTFB	304	-----AKDLPEEMLQKSS	-----Y	317			
ddTFB	277	---LGD	DIDPKIRT	-----Q	288		
tbTFB	422	QYMLQELRTDGALTV	-----L	437			
lmTFB	401	QYMLQELRMDGAMTV	-----L	416			
cons	715	-----	-----	-----	765		

ceTFB1	294	RLGIEQFADLAEGYNE	QCIRY	-----	314
hsTFB1	294	QLSISHFKSLCDVYRKMCD	ED	-----	314
dmTFB1	481	ELTVEQCLRLAEVYSEHLV	TR	-----	501
agTFB1	387	QLSVAECLRIVEAYDGLV	RER	-----	407
amTFB1	291	ELTIENI	DNL	-----	300
xlTFB1	294	ELTMTHFKKLCNVYREMC	DQN	-----	314
trTFB1	294	ELTIPQIRALADAYAHL	CTLE	-----	314
ciTFB1	308	ELENLHFRDLCYAYEE	IADRI	-----	328
hsTFB2	364	NMHPQDFKTLFETIERSK	DCA	-----	384
rnTFB2	363	KMYPHDFKRLFETIERS	SEDSV	-----	383
dmTFB2	370	DLLPSQ	ILTLFSQFRQWPEYG	-----	390
ptTFB2	361	NMHPQDFKTLFETIERSK	DCA	-----	381
mmuTFB2	362	RMYPHDFKRLFETIEQ	SEDSV	-----	382
btTFB2	360	DMYPKDFLRLFETIECS	KDDT	-----	380
trTFB2	288	HVHPEEYLQLFQMDKS	QEFT	-----	308
tnTFB2	440	HVYPEEYLRLFQLMDKS	QEFT	-----	460
scTFB	308	NDEFIYLTKLFMWPFK	PDIL	-----	328
spTFB	335	LLSAADFLTISKII	QKYPFKH	-----	355
klTFB	306	YLEIDEIAKVFALWPFK	PSLL	-----	326
egTFB	305	NQEFTKIASLYALWPFK	PSI	-----	324
caTFB	318	EFTCEDIIKLSEAYEN	W	-----	334
ddTFB	289	NLQIEQFVKITNRYIE	FPNKIAIDHLEFENDGKTKRKEEKLKERVNKINTR	-----	339
tbTFB	438	DLTTEEVCKLATLWHR	FLEAX	-----	458
lmTFB	417	DLSVVEVTRLACLWQ	QFVTMS	-----	437
cons	766	-----	-----	-----	816

ceTFB1	315	-----	PGLFLYDYTNK	325
hsTFB1	315	-----	PQLFAYNFREE	325
dmTFB1	502	-----		501
agTFB1	408	-----	PEIAAYDY	415
amTFB1	301	-----		300
xlTFB1	315	-----	PHLFSYNYREE	325
trTFB1	315	-----	PDLQSYEFREE	325
ciTFB1	329	-----	PNLRKVDTYGE	339
hsTFB2	385	-----		384
rnTFB2	384	-----		383
dmTFB2	391	-----		390
ptTFB2	382	-----		381
mmuTFB2	383	-----		382
btTFB2	381	-----		380
trTFB2	309	-----		308
tnTFB2	461	-----		460
scTFB	329	-----		328
spTFB	356	-----		355
klTFB	327	-----		326
egTFB	325	-----		324
caTFB	335	-----		334
ddTFB	340	IEKEKKKQELILEEKKLKKEQREKEKQELKENFEKQEIEI	QNLTKFDLEDK	390
tbTFB	459	-----		458
lmTFB	438	-----		437
cons	817			867

ceTFB1	326	LHNLEDLSKEP		NALPPPVPPIFAPAPTID	353		
hsTFB1	326	LKRRKSKNEE			335		
dmTFB1	502		PEVAAYDYR		510		
agTFB1	416			RAPK	419		
amTFB1	301		ISYHY	LIQK	309		
xlTFB1	326	LRMKKLQGKS			335		
trTFB1	326	LRL			328		
ciTFB1	340	NEWSKTYFDA			349		
hsTFB2	385		YKWLIDE		391		
rnTFB2	384		FKWIYDY		390		
dmTFB2	391		ESSFLASLE		399		
ptTFB2	382		YKWLIDE		388		
mmuTFB2	383		FKWIYDY		389		
btTFB2	381		CKWLIDE		387		
trTFB2	309		QSWLYEE		315		
tnTFB2	461		QSWLYEE		467		
scTFB	329		MDFVDMY		335		
spTFB	356		HLHL	GT	361		
klTFB	327		VDFYD		331		
egTFB	325		YDFYD		329		
caTFB	335				334		
ddTFB	391	IDNEKEEEEE	INN	SLLD	SYKYQLKEALEKKEKI	DLLKQKKLENKDIIDQD	441
tbTFB	459			SQQAXGSG			466
lmTFB	438			QQQPPQEGD			446
cons	868						918

