

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

Cedric Notredame

CPU TIME:4 sec.

SCORE=83

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BAD **AVG** **GOOD**

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Homo_sapie : 86
Pan_troglo : 86
Canis_lupu : 85
Bos_taurus : 84
Mus_muscul : 85
Rattus_nor : 85
Gallus_gal : 83
Danio_reri : 79
Arabidopsi : 70
cons : 83

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Homo_sapie 1 -----MTSSRLWFSLLLAAAFAG-----RATALWPWPQNFQT--S 33
Pan_troglo 1 -----MTSSRLWFSLLLAAAFAG-----RATALWPWPQNIQT--S 33
Canis_lupu 1 -----MAASGLWLPLLLAAALAG-----RAAALWPWPQYIQT--S 33
Bos_taurus 1 -----MAGSTLRFSLLLAAAFAG-----RATALWPWPQYIQT--S 33
Mus_muscul 1 -----MAGCRLWVSLLLAAALAC-----LATALWPWPQYIQT--Y 33
Rattus_nor 1 -----MAGCRLWVSLLLAAALAC-----LATALWPWPQYIQT--S 33
Gallus_gal 1 -----MAAVAI AARALLLLAAV-----PAAALWPQPQLQRSPPA 35
Danio_reri 1 --MARI AKSPRFCCCLLSVVFVSQFVE-----RVCGVWPLPQEIQ--S 40
Arabidopsi 1 MRGSGAK--IAGV LPLFMLFIAGTISAFEDIERLRIWPLPAQVSH--G 44

cons 1      . :      : * * *      48
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Homo_sapie 34 DQRYVLYPNNFQFQYDVSSAAQPGCSVLDEAFQRYRDLLFGSGSWPRP 81
Pan_troglo 34 DQRYVLYPNNFQFQYDVSSAAQPGCSVLDEAFQRYRDLLFGSGSWPRP 81
Canis_lupu 34 EAHYAI FPHDFQFRYHSSAAQPGCSVLDEAFQRYRDLLFSSRAWYPP 81
Bos_taurus 34 ELRYTIFPQS FQFQYHLSAAQVGC SVLDEAFQRYRDLLFGSVAFRFP 81
Mus_muscul 34 HRRYTLYPNNFQFRYHVSAAQAGCVVLDEAFRRYRNLLFGSGSWPRP 81
Rattus_nor 34 HRRYTLYPNNFQFRYHAGSAAQAGCVVLDEAFRRYRSLLLFGSGSWPRP 81
Gallus_gal 36 PARCPLPPARFHF AHAAGSAVGP GCAVLDEAFQRYRALIFSA--RP 80
Danio_reri 41 AESSGLSPQLFTFTYSQDSAAQAGCSVLDTAFKRYFSIIFPD--FTKD 86
Arabidopsi 45 GRRMYL-SGDFKLVTEGSKYGD-ASGILKEGFDRMLGVVRLSHV--I 87

cons 49      : . * : . . : * . * * : : 96
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Homo_sapie 82 YLTGKRHTLEKN--VLVVS VVTPGCNQLPTLESVENYTLTINDDQ--- 124
Pan_troglo 82 YLTGKRHTLEKN--VLVVS VVTPGCNQLPTLESVENYTLTINDDQ--- 124
Canis_lupu 82 EPTRKHLHALEKN--SLVVL VVTPGCNQLPSLESLENYTLTINDDH--- 124
Bos_taurus 82 HPIEKRHTSEKN--SLVVL VVTPGCDQFP SLGSVENYTLTINDEQ--- 124
Mus_muscul 82 SFSNKQQTLGKN--ILVVS VVTAECNEFPNLESVENYTLTINDDQ--- 124
Rattus_nor 82 SFSKKQQPLGKN--ILMVS VVTAECNEFPNLESVENYTLTINDDQ--- 124
Gallus_gal 81 AENKQPWRTSCT--ELLVS VVTPGCNGFPS LDSKESYKLNISRDS--- 123
Danio_reri 87 ALHDMWLEPKAF--VLSVS VKTRGCDGYPDEDSDESYNLSVSEGG--- 129
Arabidopsi 88 SGDRNSSGTGGSAL LQGLHVI ISSSTDELEYGADES YKLVVPSPEKPS 135

cons 97      : * . : * * * : 144
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Homo_sapie	125	-CLLLSETVWGALRGLETFSQLV---	WKSAEGTFFINKTEIEDFPRFP	168
Pan_troglo	125	-CLLLSETVWGALRGLETFSQLV---	WKSAEGTFFINKTEIEDFPRFP	168
Canis_lupu	125	-CFLLSETVWGALRGLETFSQLV---	WRSPEGMFLINKTEIEDFPRFS	168
Bos_taurus	125	-SLLLSETVWGALRGLETFSQLI---	WRSPEGTFFYVNKTDIEDFPRFP	168
Mus_muscul	125	-CLLASETVWGALRGLETFSQLV---	WKSAEGTFFINKTKIKDFPRFP	168
Rattus_nor	125	-CLLSSETVWGALRGLETFSQLV---	WKSAEGTFFINKTKITDFPRFP	168
Gallus_gal	124	-MLLYADAVWGALRGLEAFSFLV---	GRDENGMYIINETEIVDFPRFP	167
Danio_reri	130	-AVLRSVTVWGALRGLESFSQLV---	YRDDYGAYFVNKTEIVDFPRFA	173
Arabidopsi	136	YQLEAKSVYGALHGLQTFSQLCHFN	LKKKVI EILMTPWNIIDQPRFS	183

cons 145 * : : * : * * : * * : * * * * : . : . * * * * . 192

Homo_sapie	169	HRGLLLDTSRHYP LPLSSILDTLDMAYNKLN VFHWHLVDDPSFPYESF	216
Pan_troglo	169	HRGLLLDTSRHYP LPLSSILDTLDMAYNKLN VFHWHLVDDPSFPYESF	216
Canis_lupu	169	HRGLLLDTSRHYP LPLTTIMDTLDAMAYNKFN VFHWHLVDDSSFPYDSY	216
Bos_taurus	169	HRGLLLDTSRHYP LPLASILDTLDMAYNKFN VFHWHLVDDSSFPYESF	216
Mus_muscul	169	HRGVLLDTSRHYP LPLSSILDTLDMAYNKFN VFHWHLVDDSSFPYESF	216
Rattus_nor	169	HRGILLDTSRHYP LPLSSILNLTDMAYNKFN VFHWHLVDDSSFPYESF	216
Gallus_gal	168	HRGLLLDTSRHYP LPLKAILETDMAYNKLN VFHWHLVDDPSFPYESF	215
Danio_reri	174	FRGLLLDTSRHYP LPLHAILKTLDMAYSKFN VFHWHLVDDPSFPYQSR	221
Arabidopsi	184	YRGLLIDTSRHYP LPLPVIKNVIDSMTYAKLN VLHWHIVDTQSFPLEIP	231

cons 193 . * * : * : * * * * * * * * * * * * . : * * : * * : * * : * * : * * * * : 240

Homo_sapie	217	TFPELMRKGSYNPVTHIYTAQDVKEVIEYARLRGIRVLAEFDTPGHTL	264
Pan_troglo	217	TFPELMRKGSYNPVTHIYTAQDVKEVIEYARLRGIRVLAEFDTPGHTL	264
Canis_lupu	217	TFPELTRKGSYNPATHIYTAQDVK M VIEYARLRGIRVLAEFDTPGHTL	264
Bos_taurus	217	TFPELTKKGSYNPATHIYTAQDVKEVIEYARLRGIRVLAEFDTPGHTL	264
Mus_muscul	217	TFPELTRKGSFNPVTHIYTAQDVKEVIEYARLRGIRVLAEFDTPGHTL	264
Rattus_nor	217	TFPELTRKGSFNPVTHIYTAQDVKEVIEYARLRGIRVLAEFDTPGHTL	264
Gallus_gal	216	TFPELSKQGA FNAMTHVYTASDVQTVIEYARLRGIRVIAEFDTPGHTL	263
Danio_reri	222	TFPDLSKKGA FHPFTHIYTQSDVMRVIEHARMRGIRVVPEFDS PGHTQ	269
Arabidopsi	232	SYPKLW-NGAYSS-SQRYTFEDAAEIVNYARRRGIHVLAEIDVPGHAL	277

cons 241 : : * . * : * : : . : : * * . * . : : : * * * * * : * : * * * * : 288

Homo_sapie	265	SWGPGIPGLLTPCYS GSEPSGTFGPVNPSLNNTYEFMSTFFLEVSSVF	312
Pan_troglo	265	SWGPGIPGLLTPCYS GSEPSGTFGPVNPSLNNTYEFMSTFFLEVSSVF	312
Canis_lupu	265	SWGPGVPGLLTPCYS GSHPSGTFGPVNPILNSTYEFMSSFFLEVSSVF	312
Bos_taurus	265	SWGPGVPGLLTPCYS GSHPSGTFGPVNPALNSTYEFMSTFFLEISTVF	312
Mus_muscul	265	SWGPGAPGLLTPCYS GSHLSGTFGPVNPSLNSTYDFMSTLFFLEISSVF	312
Rattus_nor	265	SWGAGVPGLLTPCYS GSRLSGTYGPVNPSLNSTYDFMSTFFLEISSVF	312
Gallus_gal	264	SWGPGAPGLLTPC YLGKDPSGTYPINPIFNTTYQFVTSLFQEISSVF	311
Danio_reri	270	SWGKGQPDLLTPC YKGGKPSGTYPVDPTVDTTYRFMERLLKEVKFVF	317
Arabidopsi	278	SWGKGYPALW-PSKNCQE-----PLDVSSDFTFKVIDGILSDFSKIF	318

cons 289 * * * * * * . : : : * : : . : : : : . : * 336

Homo_sapie	313	PDFYLHLGGDEVDFTCWKSNP	EIQDFMRKKGF	GEDFKQLESFYIQTLL	360
Pan_troglo	313	PDFYLHLGGDEVDFTCWKSNP	EIQDFMRKKGF	GEDFKQLESFYIQTLL	360
Canis_lupu	313	PDFYLHLGGDEVDFTCWKSND	IQNFMKEKGF	GSDFKQLESYYIQTLL	360
Bos_taurus	313	PDFYLHLGGDEVDFTCWKSND	IQAQFMKKKGF	GDDFKKLESFYIQTLL	360
Mus_muscul	313	PDFYLHLGGDEVDFTCWKSND	IQAFMKKKGF	-TDFKQLESFYIQTLL	359
Rattus_nor	313	PDFYLHLGGDEVDFTCWKSND	IQAFMKKKGF	-TDYKQLESFYIQTLL	359
Gallus_gal	312	PDHFIHLGGDEVDFTCWKSND	EILAFMKKMGF	GEDYTKLESYYIQRL	359
Danio_reri	318	PDSYVHLGGDEVDFACWQSN	PSVGVKFMKMGF	GRDFTKLESFYMESIM	365
Arabidopsi	319	KFKFVHLGGDEVNTTCWSAT	PRIAQWLKHKRMS	E--KEAYQYFVLRQA	364
cons	337	:*****. :*. :.* : :. : : . : . : :			384

Homo_sapie	361	DIVSSYGKGYVWQEVFDN	-KVKIQPDTIIQVWRED	IPVNYMKELELV	407
Pan_troglo	361	DIVSSYGKGYVWQEVFDN	-KVKIQPDTIIQVWRED	IPVNYMKELELV	407
Canis_lupu	361	NIVSAYDKGYVWQEVFDN	-KVKVRPDTIIQVWREEM	PVHVKEMELI	407
Bos_taurus	361	DIVSAYGKGYVWQEVFDN	-KVKVRPDTIIQVWREE	IPVKYVKELALV	407
Mus_muscul	360	DIVSDYDKGYVWQEVFDN	-KVKVRPDTIIQVWREEM	PVEYMLEQDI	406
Rattus_nor	360	DIVSDYDKGYVWQEVFDN	-KVKVRPDTIIQVWREEM	PVQYMKEIEAI	406
Gallus_gal	360	DIVSSLGKGYMVWQEVFDN	-GVKVRPDTIIHVWKN	LP--YAEEMANV	404
Danio_reri	366	NITAALNKTSIVWQDVFDY	-HERIPQGTVLEIWK	GET--YQTELSKM	409
Arabidopsi	365	KIALSHGYEIIINWEETFIN	FGSKLNRKTVVHNWL	NTGLV-----ENV	406
cons	385	.*. . : * : . * : : * : . * : : : :			432

Homo_sapie	408	TKAGFRALLSAP	--WYLNRI	SYGPDWKDFYIVEPLAFEGTPEQKALVI	453
Pan_troglo	408	TKAGFRALLSAP	--WYLNRI	SYGPDWKDFYVVEPLAFEGTPEQKALVI	453
Canis_lupu	408	TKAGFRALLSAP	--WYLNHI	TYGPDWSEIYMVEPLEFKGSPQQKALVI	453
Bos_taurus	408	TRAGFRALLSAP	--WYLNHI	TYGPDWKEIYLVVEPLAFEGSPEQKALVI	453
Mus_muscul	407	TRAGFRALLSAP	--WYLNRV	KYGPDKDMYKVEPLAFHGTPEQKALVI	452
Rattus_nor	407	TQAGFRALLSAP	--WYLNRV	KYGPDKEMYKVEPLAFRGTTPAQKALVI	452
Gallus_gal	405	TKSGYRALLSAP	--WYLNRI	SYGQDWMAYQVEPLKFKGSSKQKDLVI	450
Danio_reri	410	TKAGHRVLLSAP	--WYINHI	TYGQDWRNSYAVQPQNFSGTEEQKALVI	455
Arabidopsi	407	TASGLRCIVSNQEF	WYLDHID--APW	QGFYANEPFQNTDKKQQLV	452
cons	433	* : * * : : * : : : : * * : * : : * : * : :			480

Homo_sapie	454	GGEACMWGEYVDNTNLVPRLWPRAGAVAERLWS	--NKL-	TSDLTFAYE	498
Pan_troglo	454	GGEACMWGEYVDNTNLVPRLWPRAGAVAERLWS	--NKL-	TSDLTFAYE	498
Canis_lupu	454	GGEACMWGEYVDSTNLAPRLWPRAGAVAERLWS	--NKL-	VTNLDFAFK	498
Bos_taurus	454	GGEACMWGEYVDSTNLVPRLWPRAGAVAERLWS	--NKM-	VSNLDFAFK	498
Mus_muscul	453	GGEACMWGEYVDSTNLVPRLWPRAGAVAERLWS	--SNL-	TTNIDFAFK	497
Rattus_nor	453	GGEACMWGEYVDSTNLVPRLWPRAGAVIAERLWS	--SNL-	TTNMDFAFK	497
Gallus_gal	451	GGEACMWGEYVDVTNLTPRLWPRAGAVAERLWS	--NAT-	VRNLQDAYV	495
Danio_reri	456	GGEVAMWGEYVDATNLNPRLWPRACAAAERLWS	--NEEK	TLNADLAFP	501
Arabidopsi	453	GGEVCMWGEHIDASDIEQTIWPRAAAAAERLWTPY	AKL-	AKNPNNVTT	499
cons	481	***. ***** : * : : : : * * * * * : : . : .			528

Homo_sapie	499	RLSHFRCELLRRGVQAQPLNVGFCEQEFEQT-----	529
Pan_troglo	499	RLSHFRCELLRRGVQAQPLNVGFCEQEFEQT-----	529
Canis_lupu	499	RLTQFRCELLRRGVQAQPLNVGYCEQEFEQT-----	529
Bos_taurus	499	RLAHFRCELLRRGVQAQPLSVGYCDMEFEQT-----	529
Mus_muscul	498	RLSHFRCELVRRGIQAQPISVGYCEQEFEQT-----	528
Rattus_nor	498	RLSHFRCELLRRGIQAQPISVGYCEQEFEHT-----	528
Gallus_gal	496	RLADFRCELLRRGVQAEPLFIGYCDHEFGGF-----	526
Danio_reri	502	RLEEFRCCELVRRGIQAEPFLVGHCKHEFNGL-----	532
Arabidopsi	500	RLAHFRCLLNQRGVAAAPLVGGGRVVPFEPGSCLAQ	535
cons	529	** . *** * : ** : * * : * *	564