

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

Cedric Notredame

CPU TIME:94 sec.

SCORE=42




*

BAD AVG GOOD

*

ErmA	:	43
ErmB	:	39
ErmC	:	43
ErmD	:	41
ErmE	:	43
ErmF	:	42
ErmG	:	42
ErmH	:	44
ErmN	:	40
ErmO	:	42
ErmQ	:	41
ErmR	:	42
ErmS	:	43
ErmT	:	43
ErmU	:	43
ErmV	:	42
ErmW	:	43
ErmX	:	45
ErmY	:	42
ErmZ	:	37
Erm30	:	44
Erm31	:	44
Erm33	:	43
Erm34	:	41
Erm35	:	41
Erm36	:	44
Erm37	:	36
Erm38	:	45
Erm39	:	45
Erm40	:	43
Erm41	:	38
cons	:	42

ErmA	1	-----	0
ErmB	1	-----	0
ErmC	1	-----	0
ErmD	1	MKKK-----NHKYRGK-----	11
ErmE	1	MSSSDEQPRP-----RRRNQ--DRQ--HPNQNRPVLG	28
ErmF	1	-----	0
ErmG	1	-----	0
ErmH	1	MAALLKRILRRR-----MAEKRSGRGRMAAARTTGAQSRKTAQRSG	41
ErmN	1	MPSRPRTDSP-----HRHEGPAGPA	20
ErmO	1	MA-----	2
ErmQ	1	MKAK-----SNN-----	7
ErmR	1	MAGP-----QDRPRGRGP--SSGRPQRPVGG-----	24
ErmS	1	MARAPRSPHPARSRETSTRAHPPYGT RADRAPGRGR--DRDRSPDSPGNTSSRDG	52
ErmT	1	-----	0
ErmU	1	-----	0
ErmV	1	MA-----	2
ErmW	1	MSSI-----R-----RRHAAAS-----	12
ErmX	1	-----	0
ErmY	1	-----	0
ErmZ	1	MTLK-----SPLP-----PQSVSAP-----	15
Erm30	1	MAMRDSIP-----R	9
Erm31	1	-----M	1
Erm33	1	-----	0
Erm34	1	MTKK-----MNKYNGK-----	11
Erm35	1	-----	0
Erm36	1	-----	0
Erm37	1	-----	0
Erm38	1	-----	0
Erm39	1	-----	0
Erm40	1	-----	0
Erm41	1	-----	0
cons	1	-----	54

ErmA	1	----	MNQKNPKDTQNFITSKKHVKEILN	----	HTNI	-----	SKQDNVIEIG	38
ErmB	1	----	MNKNIKYSQNFLTSEKVLNQIIK	----	QLNL	-----	KETD TVYEIG	37
ErmC	1	----	MNEKNIKHSQNFITSKHNIDKIMT	----	NIRL	-----	NEHDNIFEIG	38
ErmD	12	KLN	RGESPNFSGQHLMHNKKLIEEIVD	----	RANI	-----	SIDDTVLELG	52
ErmE	29	RTE	RDRNRRQFGQNFLRDRKTIARIAE	----	TAEL	-----	RPDLPVLEAG	69
ErmF	1	MTK	KKLPVRFTGQHFTIDKVLIKDAIR	----	QANI	-----	SNQD TVLDIG	41
ErmG	1	----	MNKVNIKDSQNFITSKYHIEKIMN	----	CISL	-----	DEKDNIFEIG	38
ErmH	42	RSE	ADRRRRVHVGQNFLVDRET VQRFVR	----	FADP	-----	DPGEVVLEVG	82
ErmN	21	RLD	RDEARRVWGQNFFRSAGSARRFAR	QLTG	AESA	-----	GNDSVTVEVG	65
ErmO	3	--R	PTQRARTLSQNFLADRATAERVAH	----	LAVP	-----	DRGRRPLLLEVG	43
ErmQ	8	--Y	RGKVDISVSQNFITSKNTIYKLIK	----	KTNI	-----	SKNDFVIEIG	46
ErmR	25	RSQ	RDRDRRVLGQNFLRDPATIRRIAD	----	AADV	-----	DPDGLVVEAG	65
ErmS	53	GRS	PDRARRELSQNFLARRAVAERVAR	----	LVRP	-----	AP--GGLLLEVG	93
ErmT	1	----	MNKKNIKDSQNFITSKHHINEILR	----	NVHL	-----	NTNDNIEIG	38
ErmU	1	MPS	RYGSRQDLGQNFLVDPDI IKLIRR	----	APNE	-----	RKVPSL--IW	39
ErmV	3	--R	PSRVSRALSQNFLADRAAAGQLAR	----	LAAP	-----	HGLPVPLLLEVG	43
ErmW	13	LDT	PAVGGRHEL GQNFLVDRGVCTRIAE	----	VVSS	-----	TTAHPVLELG	54
ErmX	1	MST	YGYGRHEHGQNFLTDHKIINSIVD	----	LVKQ	-----	TSG--PIIEIG	40
ErmY	1	----	MNKKDIKFSQNFITSKRHINKIMS	----	NLEL	-----	NRNDNVFEIG	38
ErmZ	16	ADS	RSTARREW GQNFFRTAAACRFSA	----	QLDGS	SDTIPP	DSPNDLMTVEIG	64
Erm30	10	RAD	RDTLRREL GQNFLQDDRAVRNLVT	----	HVEG	-----	DGR--NVLEIG	49
Erm31	2	AFS	PQGGRHEL GQNFLVDRSVIDEIDG	----	LVAR	-----	TKG--PILEIG	41
Erm33	1	----	MNKKNIKDSQNFITSKRNIDKIMT	----	NISL	-----	NEHDNIFEIG	38
Erm34	12	KLS	RGEPPNFSGQHFMHNKRLLEIVD	----	KADV	-----	SVRDTVLELG	52
Erm35	1	MTK	KKLPVRFTGQHFTIDKVLIKDAIK	----	ESNI	-----	NQHDTVLDIG	41
Erm36	1	MPT	YRGGREHGQNFLTDHTTIDRLSR	----	LVGD	-----	STG--PIVEIG	40
Erm37	1	MSA	LGRSRRAWGWHRLHDEWAAR--VVS	----	AAAV	-----	RPGELVFDIG	40
Erm38	1	MST	PHHGRHEL GQNFLSDRRVIADIVE	----	IVSR	-----	TNG--PIIEIG	40
Erm39	1	MSS	VHHGRHENGQNFLRDRRVVGDIVR	----	MVSH	-----	TAG--PIVEIG	40
Erm40	1	MSS	KNQGRHEHGQNFLCDDRRVVADIVK	----	IVSH	-----	TTG--SIVEIG	40
Erm41	1	----	-----	----	-----	-----	MDLG	4
cons	55							108

ErmA	39	SGKGFHTKELVKMSRSVTAIEIDGGLCQVTKEAVN-----	PSENIKVIQTDIL	86
ErmB	38	TGKGHLTTKLAKISKQVTSIELDSHLFNLSSSEKLLK-----	LNTRVTLIHQDIL	85
ErmC	39	SGKGFHTLELVQRCNFVTAIEIDHKLCKTTENKLV-----	DHDNFQVLNKDIL	86
ErmD	53	AGKGALTTVLSQKAGKVLAVENDSKFVDILTRKTA-----	QHSNTKIIHQDIM	100
ErmE	70	PGEGLLTRELADRARQVTSYEIDPRLAKSLREKLS-----	GHPNIEVVNADFL	117
ErmF	42	AGKGFLLTVHLLKIANNVVAIENDTALVEHLRKLFS-----	DARNVQVVGCDFR	89
ErmG	39	AGKGFHTAELVKRCNFVTAIEIDSKLCEVTRNKLL-----	NYPNYQIVNDDIL	86
ErmH	83	AGNGAITRELARLCRRVVAYEIDRHFADRLREATA-----	EDPRIEVVAGDFL	130
ErmN	66	PGAGRITKELVRDGHPIVAVEVDPHWADRLAE--L-----	ELPNLTVVNDFFT	111
ErmO	44	AGNGALTEPLARRSRELHAYEIDPRLVPGLRARFA-----	RSPHVHVVAGDFL	91
ErmQ	47	PGKGHITEALCEKSYWVTAIEIDRSLYGNLINKFK-----	SKNNVTLINKDFL	94
ErmR	66	PGEGLLTRELARRAGRVRTYELDQRLARRLSTDLA-----	QETSIEVVHADFL	113
ErmS	94	AGRGVLTEALAPYCGRLVAHEIDPRLLPALRDRFG-----	GPHHAHVRISSGDFL	143
ErmT	39	SGKGFHSFELAKRCNYVTAIEIDPKLCRITKNKLI-----	EYENFQVINKDIL	86
ErmU	40	RRRGHVTLPLSRLGRPVTAVELDPRRVKRLSAR-----	APENVKVVGEDIL	85
ErmV	44	AGKGALTELLAPRCRSLLAYEIDPRLVPVLRSRFA-----	DAPHVRVLGEDFL	91
ErmW	55	AGDGAITRALVAANLPVTALELDPRRVRRLLQRTFA-----	DGVTVVHGDML	100
ErmX	41	PGSGALTHPISHLGRAITAVEVDAKLAAKLTKKT-----	ASASVEVVHDDFL	87
ErmY	39	SGKGFHTLELVQKCNVTVIEIDSNLCIQTONKVT-----	NYDNFRIINKDIL	86
ErmZ	65	AGSGRVTKVLASPGTPLLAVEIDPRWARRLAEE-----	SLPDVTVVNEDFL	110
Erm30	50	PGKGAIITEELVRSFDTVTVVEMDPHWAAHVRRKF-----	EGERVTVFQGDFL	96
Erm31	42	PGDGALTLPLSRHGRPITAVELDGRRARQLGART-----	PGHVTVVHHDFL	87
Erm33	39	SGKGFHTLELVQRCNFVTAIEIDHKLCKTTENKLV-----	DHDNFQVLNKDIL	86
Erm34	53	AGKGALTTILSERADRVLAVEYDQKCIEALQWKLKLV-----	GSKNVSILHQDIM	100
Erm35	42	AGKGFLLTVHLLKNVDKVI A IENDVALSQHLRKKFI-----	HAQNVQVVSCDYR	89
Erm36	41	PGQGRLTRELQKLGRSLTAVEIDSRLADRLASASQ-----	FREQKHVTVVNADFL	90
Erm37	41	AGEGALTAHLVRAGARVVAVELHPRRVGVLRERF-----	PGITVVHADAA	85
Erm38	41	AGDGALTIPLQRLARPLTAVEVDARRARRLAQTARSAP	GPASRPTEVVAADFL	94
Erm39	41	AGDGALTLPLQRLGRPLTAIEIDLHRARRLAD-----	RTTAEVIATDFL	84
Erm40	41	AGDGALTVPMQRLGRPLTAIEIDRRRAERLARRT-----	TAHVVTADFL	84
Erm41	5	AGHGALTAHLVAAGARVLAVELHPPGRARHLRSRFA-----	E-EDVRVAEADLL	51
cons	109	* . : : : * .	: *	162

ErmA	137	N-LQR--ALGLLLMEVDIKMLKKVPPLYFHPKPSVDSVLIVLERH-QPLI-SK	185
ErmB	136	D-IHR--TLGLLLHTQVSIQQLLKLPAECFHPKPKVNSVLIKLTRH-TTDV-PD	184
ErmC	137	N-TKR--SLALFLMAEVDISILSMVPREYFHPKPKVNSLIRLNKR-KSRI-SH	185
ErmD	152	SK-FIKNSYVLAWRMWFDIGIVREISKEHFSPPPKVDSAMVRI TRKKDAPLS-H	203
ErmE	167	GDYGRWSRLTVMTWPLFEWEFVE-----KVDSAIMRLRRRAEPLLE-G	208
ErmF	141	SR-KLYNPTYTVFYHTFFDLKLVYEVGPESFLPPPTVKSALLNIKRKH-LFF-DF	191
ErmG	137	D-TNR--SLALLLMAEVDISILAKIPRYYFHPKPKVDSALIVLKRK-PAKM-AF	185
ErmH	180	GGYRRWSRLTVATWPEVEWRMGERISRRWFRPVPAVDSAVLRLERRPVPLIP-P	232
ErmN	163	GAYG-GNLFNAQWEPWYTFRRGLGFPRQEFAPVPGSDTETLLVRSRPRPLAP-W	214
ErmO	141	GDYGRWTLTTLVLTWPRHEWRLVGRVGRSRFCPAPRVDAGILRIERRPTALLTGA	194
ErmQ	147	G-IPRESKLSLLLKTKFDIKIVHYFNREDFHPMPSVDCVLVYFKRKYKYDI-SK	198
ErmR	163	GDYGRWTALTVTTWPTFEWQYVAKVDRTLFTFPVPRVHSAIMRLRRRPQPLLRDA	216
ErmS	193	GDYGRWSLLTVRTWPRHEWRLLGRVSRREFRPVPRVDSGILRIERRERPLLP-S	245
ErmT	137	N-TNR--SLALFLMTEVDISILSKIPREYFHPKPRVNSLIVLKRH-PSKI-SL	185
ErmU	135	G-IGGCSLVTAESWPWFDFSVLKRVPRFAFRPAPSVDGGILVIERRPEPLV---	184
ErmV	141	GDYGSWTRLTVLTWPRHEWRLAGRVGRRSFRPVPRVDAGIVRIERRRTPLLA-P	193
ErmW	150	G-VGGTMTLTAASWPWYEFRTLVERVPKTSFDPVPSVDGGILVIERRSAPLL-DD	201
ErmX	137	G-VGASTMMTAQWSPWFTFHLGSRXPRSAFRPQPNVDGGILVIRRVGDPKIP-I	188
ErmY	137	N-TNR--SLALLLMTTEVDISILSKIPKEYFHPKPKINSLLIILKRH-PSKI-SY	185
ErmZ	162	G-AWGGNLFNAQWEPWYSFDRGLAFSRQDFTPVPRADTQTLMVAPHRRPSV-PW	213
Erm30	146	G-RSGGSLLTTSWAPWYEFVHVRASSFRPMPRVDGGVLTIRRRPQPLLP-E	197
Erm31	137	G-VGGSTLLTAGWAPWYEFDLHSRVPARAFRPMPGVDGGVLAIRRRSAPLV---	186
Erm33	137	N-LQR--ALGLLLMEVDIKMLKKVPPLYFHPKPSVDSVLIVLERH-QPLI-SK	185
Erm34	152	S-VSPKDAYVMAWHMWFDIHYERGISRSSFSPPPKVDSALVRIVRKQHPLFP-Y	203
Erm35	141	SS-KVYNPLTVLYHTYYDLKFLYEINPESFLPPPTVKSALLRIERKQ-ISL-DI	191
Erm36	140	G-IGSSMMTAQWWPWIDFSLHGRVPRSAFKPAPSVDGGLEEMTRRPDPLLS-P	191
Erm37	136	SRNA-----RRFTLTVGLMLPRAFLPPPHVDSAVLVVRRRK-----	173
Erm38	144	A-VGGATMMTAQWWPWFEFGLARKVSAASFTRPAVDAGLLTITRRSRPLVD-V	195
Erm39	134	G-VGGATMMTAQWWPWFEFGLARKVSADAFRPRPSVDAGLLTIQRRAEPLLP-W	185
Erm40	134	A-VGGATMMTAQWWPWFEFGLARKVSADAFRPRPSVDAGLLTITRRREPLID-G	185
Erm41	102	-----KRAPVRHW---TLRAGITLPRSAFHHPQVDSVSLVIRRR-----	138
cons	217	270

ErmA	186	KDYKKYRSFVYKVVN-----REYRVLF---TKNQFRQALKHANV---TNINK	226
ErmB	185	KYWKLYTYFVSKVVN-----REYRQLF---TKNQFHQAMKHAKV---NNLST	225
ErmC	186	KDKQKYNYFVMKVVN-----KEYKKIF---TKNQFNNSLKHAGI---DDLNN	226
ErmD	204	KHYIAFRGLAEYALKEPNIPLCVALRGIF---TPRQMKHLRKSLSKINNEKTVGT	254
ErmE	209	AALERYESMVELCFTGVGGNIQASLLRKY---PRRRVEAAFDHAGVGGGAVVAY	259
ErmF	192	KFKAKYLAFISYLLEKPDLSVKTALKSIF---RKSQVRSISEKFGLNLNAQIVC	242
ErmG	186	KERKKYETFVMKVVN-----KEYEKLK---TKNQFNKALKHARI---YDINN	226
ErmH	233	GLMHDFRDLVETGFTGKGGSLDASLRRRF---PARRVAAGFRRARLEQGQVVVAY	283
ErmN	215	SRHAAYQRFVEDVFNTSRLTIGEAAAR-AL---DRRAGPGWLRGARVPPGLRVKD	264
ErmO	195	AARRDWADLVELGFSGVGGSLHASLRRRAH---SRRRVDAAFRAARLDPGVLVGE	245
ErmQ	199	DEWNEYTSFISKSIN-----NLRDVF---TKNQIHAVIKYLGINL-NNISE	240
ErmR	217	AARSRFADMVEIGFVGKGGSLYRSLTREW---PRSKVDSAFARADVHHDEIVAF	267
ErmS	246	AALGDYHRMVELGFSGVGGSLYASLRRRAH---RAGPLDAAFRAARLDRSVVVAY	296
ErmT	186	KDRKQYENFVMKVVN-----KEYIKLF---SKNQFYQALKYARI---DDLNN	226
ErmU	185	RERREYQDFVRQVFTGRGHGLREILQRIK-RVQDSDL SAWFRAHGVSPQALPKD	237
ErmV	194	GADAGWRELVDLGFSGAGGSLHASLRRAR---PRRRVDAAFRAAGLDRDVLVGE	244
ErmW	202	RCVGDYQNLVREVYTGPGRGLAAILRTRL---PGREVDAWLRRERVDPAALPRD	252
ErmX	189	EQRKAFQAMVHTVFTARGRGIGIILRRAGLFS-RRSETQSWLRSRGIDPATLPPR	242
ErmY	186	KDKKMYNNFVMKVVN-----QEYSKLF---TKNQFNKALNYAKI---KDLKN	226
ErmZ	214	REKAAYQRFVQRVFDTGQMTVGDAAARKVL---RRG-HAQFVRGAGVRPADRVKD	263
Erm30	198	SASRAFQNF AEAVFTGPGRGLAEILRRH---IPKRTYRSLADRHGIPDGGLPKD	248
Erm31	187	GQVKTYQDFVRQVFTGKGNGLKEILRRTG-RISQRDLATWLRRNEISPHALPKD	239
Erm33	186	KDYKKYRSFVYKVVN-----REYRVLF---TKNQFRQALKHANV---TNINK	226
Erm34	204	KEAKAMHDFLSYALNPNRAPLDQVLRGIF---TAPQAKKVRQAIGVKPETPVAM	254
Erm35	192	GLKVKYLNFVSYMLQKPDLTVKTAMKSIF---RKKQVRSISEKFGVDLNSKIVC	242
Erm36	192	DARESYRQFVHDVFTSRGRGIGIILANVSSSLGKRGALQLLKSEGISSSLPKD	245
Erm37	174	-----	173
Erm38	196	ADRARYQALVHRVFTGRGHGMAQILQRL---PTPVPRTWLRANGIAPNSLPRQ	245
Erm39	186	ADRRAYQALVHRVFTGRGRGLAQILR-----PHVHPRWLSANGIHPSALPRA	232
Erm40	186	ADRRRYQALVHAVFTGRGRGVAQIVGPR-----VPRHWRHNGITPSALPRD	232
Erm41	139	-----	138
cons	271	-----	324

ErmA	244	-----	243
ErmB	244	-----	243
ErmC	245	-----	244
ErmD	274	-----HKW-----PRANKRKP-----	284
ErmE	314	HRDRQASGHGDRRSSGRNRDDGRTGEREQGDQGRR-----	349
ErmF	265	-----	264
ErmG	245	-----	244
ErmH	298	-----	297
ErmN	292	-----	291
ErmO	261	-----	260
ErmQ	258	-----	257
ErmR	299	GRPGGGPRPDGRAGGGPRRDAG--GRRTDGDRGGRPRP-----PRG--G-	338
ErmS	315	-RPA-----	317
ErmT	245	-----	244
ErmU	263	-----RGLPPRT-----SRGPRRNS-	277
ErmV	259	-----	258
ErmW	281	ARPG-----SVG--PDRSLPPRGLRSGP-----PRARRRGG-	309
ErmX	261	-----RH--RPISQSGSSQR-----PPQRKNRGRRR-	284
ErmY	245	-----	244
ErmZ	283	-----	282
Erm30	283	GRDYDSETSRAAVPGS-----RRYGPTRGGEPCAPRAQVRQTKGRQ-----	323
Erm31	280	GHPGGRVS-----ASRRGV--PQARRGR-----	300
Erm33	244	-----	243
Erm34	277	-----PRRKR-----	281
Erm35	265	-----	264
Erm36	282	-----	281
Erm37	179	-----	178
Erm38	286	DRPATHHKQTGPVVGQRQPQRG--RDADADPDDQRTAP--PVTRHHQGERRDED	335
Erm39	247	-----	246
Erm40	251	-----C-----	251
Erm41	139	-----	138
cons	379	-----	432

