

CLUSTAL W (1.7) multiple sequence alignment

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KCTD1_HOMSA      SNAPVHIDVGGHMYTSSLATLT-KYPESRIGRLFDGTEPIVL-----
DSLKQHYFID
KCTD1_MUSMU      SNAPVHIDVGGHMYTSSLATLT-KYPESRIGRL-DGTEPIVL-----
DSLKQHYFID
Q5SNS9_DANRE     ANAPVHIDVGGHMYTSSLATLT-KYPESRIGRLFDGTEPIVL-----
DSLKQHYFID
KCTD15_HOMSA     SNAPVHIDVGGHMYTSSLATLT-KYPDSRISRLFNGTEPIVL-----
DSLKQHYFID
KCTD15_MUSMU     ANAPVHIDVGGHMYTSSLATLT-KYPDSRISRLFNGTEPIVL-----
DSLKQHYFID
Q6DC02_DANRE     ANAPVHIDVGGHMYTSSLATLT-KYPDSRISRLFNGTEPIVL-----
DSLKQHYFID
Q9W2F9_DROME     YTAPVHIDVGGTIYTSSLETLT-KYPESKLAKLFNGQIPIVL-----
DSLKQHYFID
KCTD6_HOMSA      MTDPVTLNVGGHLYTTSLTTLT-RYPDSMLGAMFGGDFPTA-----
RDPQGNFYFID
KCTD6_MUSMU      MSDPVTLNVGGHLYTTSLTTLT-RYPDSMLGAMFGGDFPTA-----
RDPQGNFYFID
Q6DG99_DANRE     LTHPVTLNVGGHLYTTSISTLQ-RYPDSMLGAMFRGDFPTT-----
RDAQGNFYFID
KCTD21_HOMSA     MSDPITLNVGGKLYTTSLATLT-SFPDSMLGAMFSGKMPTK-----
RDSQGNCFYFID
KCTD21_MUSMU     MSDPITLNVGGKLYTTSLATLT-SFPDSMLGAMFSGKMPTK-----
RDSQGNCFYFID
KCTD11_HOMSA     FGGPVTLNVGGTLYSTTLETLT-RFPDSMLGAMFRAGTPMP-----
PNLNSQGGGHYFID
KCTD11_MUSMU     FGGPVTLNVGGTLYSTTLETLT-RFPDSMLGAMFRADTLMP-----
ANLNPQGDGHYFID
KCTD4_HOMSA      KSTLMTLNVGGYLYITQKQTLT-KYPDTFLEGIVNGKILCP-----
FDADGHYFID
KCTD4_MUSMU      KSTLMTLNVGGYLYITQKQTLT-KYPDTFLEGIVNGKILCP-----
FDADGHYFID
Q6GMI6_DANRE     SSGTITINVGGYLYAAQRHTLA-KHPGSLLEEMVTGKKPV-----
LHVDSMGNTFYFID
KCTD8_HOMSA      FPEVVELNVGGQVYVTKHSTLL-
SVPDSTLASMFPSSPRGGARRRGELPRDSRARFFID
KCTD8_MUSMU      FPEVVELNVGGQVYVTKHSTLL-
SVPDSTLASMFPSSPRGGARRRGDLPRDSRARFFID
Q3L1G3_DANRE     YPEVVELNVGGQVYVTKRSTLV-SVPDTTLHTMFTRCTP-----
HELPRDSRGRFFID
KCTD16_HOMSA     FPEVVELNVGGQVYFTRHSTLI-SIPHSLLWKMFSPKRDT-----
ANDLAKDSKGRFFID
KCTD16_MUSMU     FPEVIELNVGGQVYFTRHSTLI-SIPHSLLWKMFSPKRDT-----
ANDLAKDSKGRFFID
Q3L1G4_DANRE     FPDVIELNVGGQVYYTRYTTLI-NTPGSLLGKIFSPKNNA-----
SNDLARDPKGRYFID
Q3L1G6_DANRE     SSDVVELNVGGQVYYTRHATLT-SVPNSLLGKLFSSKKDI-----

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SNDLTQDIKGRYFID	FSVIELNVGGQVYVTRHTTLI-AVPDSLLWNMFSKKT-----
Q804Q4_DANRE	FSEIELNVGGQVYVTRHSTLL-SVPNSLLWTMFSQKKP-----
AELARDSKGRFFLD	GQDLVTLNVGGRIFTTRPSTLK-QFPASRLAGMLDGRDQ-----
Q561T3_DANRE	SQELVTLNVGGKIFTTRFSTIK-QFPASRLARMLDGRDQ-----
AELTTDSKGRFFLD	FPDIVELNVGGQVYVTRRCTVV-SVPDSLLWRMFTQQP-----
KCNRG_MUSMU	FPDIVELNVGGQVYVTRRCTVV-SVPDSLLWRMFTQQP-----
EFKTVDGQIFVD	MPEIIELVGGVSYTTTLATLL-QDKSTLLAELFGEGR-----
KCNRG_HOMSA	VEDVITLVGGTMYTTTRSTLS-KETDTLLANIASGSLSEDE----
EKMVGGQIFVD	FPEVVPLNIGGAHFTTRLSTLR-CYEDTMLAAMFSGRHYIP-----
KCTD12_HOMSA	FPEVVPLNIGGAHFTTRLSTLR-RYEDTMLAAMFSGRHYIP-----
QELARDSKGRFFLD	FPEVIPLNVGGTYFTTRLSTLR-RYEDTMLAAMFSGRHHIP-----
KCTD12_MUSMU	MSTVVELNVGGEFHTTTLGTLR-KFPGSKLAEMFSSLAKAS-----
QELARDSKGRFFLD	DAKVVELNVGGQFYTTTMTGLM-KHPGSKFSEILSRSARHY-----
Q9VDH3_DROME	KSQVVHLNIGGHVFSTTLGTIR-KFPNSTLAELINGSSKR-----
DSLAKDSKGRYFLD	AARWVRLNVGGTYFVTTRQTLG-REPKSFLCRLCCQEDPE-----
A0PD34_CAEL	GSRWVRLNVGGTYFVTTKQTLR-RDPKSFLYRLC-QEDPD-----
QANVVTLPDGTLFVD	VSKWVRLNVGGTYFLTTRQTLR-RDPKSFLYRLC-QADPD-----
KCTD7_HOMSA	VSKWVRLNVGGTYFLTTRQTLR-RDPKSFLYRLC-QADPD-----
TDSEGRYFID	VSKWVRLNVGGTYFLTTRQTLR-RDPKSFLYRLC-QADPD-----
KCTD7_MUSMU	SSKWVRLNVGGTYFLTTRQTLR-RDPKSFLYRLC-QADPD-----
TDSEGRYFID	GRPLGPAQRGRYLLRDTRQTLG-REPKSFLCRLCCQEDPE-----
Q0FV7_DANRE	WGKWVRLNVGGTVFLTTRQTLR-REQKSFLSRLCQGEE-----
RDAEGRYFID	WGKWVRLNVGGTVFLTTRQTLR-REQKSFLSRLCQGEE-----
KCTD14_HOMSA	NGKWVRLNVGGTVFLTTRQTLR-KEQTSFLYRLCQQQD-----
TDAEGRFFID	SSSWVRLNVGGKVFQTTTRSTLM-REPCSFLYRLCQ-DEMG-----
KCTD14_MUSMU	TDQWVRLNVGGTYFLTTKTLLS-RDPNSFLSRLIQ-EDCD-----
KDAQGRFFID	
A0A2R8RRJ7_DANRE	
MDSEGRYFID	
KCTD2_HOMSA	
LDSDKDETAYLID	
Q0P490_DANRE	
LDSDKDETAYLID	
KCTD5_HOMSA	
LDSDKDETAYLID	
KCTD5_MUSMU	
LDSDKDETAYLID	
Q6NYY3_DANRE	
LDSDKDETAYLID	
KCTD2_MUSMU	
LDSDKDETAYLID	
KCTD17_HOMSA	
LQSDRDETAYLID	
KCTD17_MUSMU	
LQSDRDETAYLID	
U3JA92_DANRE	
LHSDTDETAYVID	
Q18776_CAEL	
LPTDRDETAYLID	
Q9W579_DROME	

LISDRDETGAYLID	
KCTD9_HOMSA	HTDWLTLNVGGRYFTTTRSTLVNKEPDSMLAHMFKDKGVW-----
GNKQDHRGAFLID	
KCTD9_MUSMU	HTDWLTLNVGGRYFTTTRSTLVNKEPDSMLAHMFKDKGVW-----
GNKQDHRGAFLID	
F1Q5M1_DANRE	HTDWLTLNIGGRLFTTTRSTLVSKEPDSMLAHMFREKDVW-----
GNKQDERGAFLID	
Q6DGD4_DANRE	HTDWITLNVGGRRFTTTRSTLV-KETESMLAHMFRDKDVW-----
GNKQDEQGAYLID	
Q8T0F7_DROME	PNRWVKLNVGGQIYATTIDTLVGREPDSMLARMFLQNGSMK-----
PSEERDEQGAYLID	
KCTD3_HOMSA	SGEIVQLNVGGTRFSTSRQTLM-WIPDSFFSLLSGRISTL-----
RDETGAIFID	
KCTD3_MUSMU	SGEIVQLNVGGTRFSTSRQTLM-WIPDSFFSLLSGRISTL-----
RDETGAIFID	
F1Q6W0_DANRE	MGDIIQLNVGGTRFSTSRQTLT-WIPDSFFSLLSGRISTL-----
RDETGAIFID	
SHKB1_HOMSA	PGEVIHLNVGGKRFSTSRQTLT-WIPDSFFSLLSGRISTL-----
KDETGAIFID	
SHKB1_MUSMU	PGEVIHLNVGGKRFSTSRQTLT-WIPDSFFSLLSGRISTL-----
KDETGAIFID	
E7FFI2_DANRE	IGDIIHLNVGGKRFSTSRQTLT-WVPDSFFSLLSGRISTL-----
KDETGAIFID	
Q9VH62_DROME	SSDLVNLNVGGQRFSTSRQTLT-WIPDTFFTALLSGRISSL-----
RDEHNAIFID	
017001_CAEL	SDYIVNLNVGGGRIFATSCNTLT-WIPDSFFTSLLSGRMNSV-----
KDPSGAIFID	
Q9TZA6_CAEL	SETIVKLVGGSVFETWKSTLT-K-QDGFFKTLVETNIPVK-----
KDTSDCYFID	
Q18986_CAEL	PSTIVKLDVGGKIFKTTIFTLT-K-HDSMLKTMFCTDVPVT-----
KNEEGSVFID	
Q7JZ62_DROME	SSQYLKLVGGHLYYTTIGTLT-KNNDTMLSAMFSGRMEVL-----
TDSEGWILID	
KCTD10_HOMSA	SSKYVKLVGGALYYTTMQTLT-K-QDTMLKAMFSGRMEVL-----
TDSEGWILID	
KCTD10_MUSMU	SSKYVKLVGGALYYTTMQTLT-K-QDTMLKAMFSGRMEVL-----
TDSEGWILID	
Q6P7X5_DANRE	SSKYVKLVGGALYYTTMQTLT-K-QDTMLKAMFSGRMEVL-----
TDSEGWILID	
TNFAIP1_HOMSA	GNKYVQLNVGGSLYYTTVRALT-R-HDTMLKAMFSGRMEVL-----
TDKEGWILID	
TNFAIP1_MUSMU	GNKYVQLNVGGSLYYTTVRALT-R-HDTMLKAMFSGRMEVL-----
TDKEGWILID	
F1R5K5_DANRE	GNKYVQLNVGGNLYYSTLQVLT-R-QDTLLRSMFSGKMEVL-----
TDKEGWILID	
KCTD13_HOMSA	NSKYVKLVGGSLHYTTLRTLT-G-QDTMLKAMFSGRVEVL-----
TDAGGWVLID	
KCTD13_MUSMU	NSKYVKLVGGSLHYTTLRTLT-G-QDTMLKAMFSGRVEVL-----
TDAGGWVLID	
A9ULR9_DANRE	SSKYVKLVGGTLHYTTVQTLT-K-EDSLLRSICDGSTEVS-----

IDSEGWVLD
 KCTD18_HOMSA VLDVLRNLNVGGCIYTARRESLC-RFKDSMLASMFSGRFPLK-----
 TDESGACVID
 KCTD18_MUSMU VLDILRLNVGGCIYTARRESLC-RFKDSMLASMFSGRFPLK-----
 TDESGACIIN
 KCTD19_HOMSA PQQIIKVYVGSHWYATTLQTLL-KYPELLSNP---QRYW-----
 ITYGQTLIIH
 KCTD19_MUSMU PQQIIKLYVGSHWYATTLQTLM-KYPELLSNT---QRYW-----
 IAYGQTLIIH
 A4IG48_DANRE TAERVTLIVDNTRFVVDPSIFT-AQPNTMLGRMFGSGR-----
 EHNFRPNEKGEYEVA
 X1WDG9_DANRE TSEKVTLLIVDNTRFVVDPSIFT-AQPNTMLGRMFGSGR-----
 EHNFRPNEKGEYEVA
 BTBDA_MUSMU TSERVTLIVDNTRFVVDPSIFT-AQPNTMLGRMFGSGR-----
 EHNFRPNEKGEYEVA
 BTBDA_HOMSA TSERVTLIVDNTRFVVDPSIFT-AQPNTMLGRMFGSGR-----
 EHNFRPNEKGEYEVA
 KCTD20_HOMSA APEKVTLVLDGTRFVNPQIFT-AHPDTMLGRMFGPGR-----
 EYNFRPNEKGEYEIA
 KCTD20_MUSMU APEKVTLVLDGTRFVNPQIFT-AHPDTMLGRMFGPGR-----
 EYNFRPNEKGEYVIA
 A0A2R8QE47_DANRE SHDRVTLVVDGTHFVVDPAVFT-AYPDTVLGRMFGRAR-----
 QHSFTRPNTKGEYEIA
 X2J8G3_DROME PPERITMLVDGVRFTVEQSLLT-AHPTTMLGTMFGSGF-----
 QFAHTNERGEYDVA
 Q21748_CAEEL EGDKVCLLVQTRFLVSQRLLT-SKPDTMLGRMFSMRASCGLG-
 ADLVSPNERDEFEVA
 WHI2_SACCE GDSLIIHLNIQENHYFITRDQLM-
 SLPESLLLCLFPGVFLDRCGQVITNLTRDDEVYIVN
 WHI2_CANAL YNSIIHLNIRGKEFTITRDDLM-
 SLPESILLCLFPNGVFLDVNGNVINNLTEDDIVY-VN
 WHI2_SACPO DPIIIQLCDRDTVFEFSRDQLL-
 GLPESILMCLFPRGLLLDYEIQECQLTQRPLIFQTAD

KCTD1_HOMSA R--DGQMFYIILNFLRTS-
 KLLI-----
 KCTD1_MUSMU R--DGQMFYIILNFLRTS-
 KLLI-----
 Q5SNS9_DANRE R--DGHMFRYIILNFLRTS-
 KLLI-----
 KCTD15_HOMSA R--DGEIFRYVLSFLRTS-
 KLLL-----
 KCTD15_MUSMU R--DGEIFRYILSFLRTS-
 KLLL-----
 Q6DC02_DANRE R--DGEIFRYILSFLRTC-
 KLLL-----
 Q9W2F9_DROME R--DGGMFRHILNFMRNS-
 RLLI-----
 KCTD6_HOMSA R--DGPLFRYVLNFLRTS-

ELTL	-----
KCTD6_MUSMU	R--DGPLFRYVLNFLRTS-
ELTL	-----
Q6DG99_DANRE	R--DGTLFRYILNFLRTS-
ELTL	-----
KCTD21_HOMSA	R--DGKVFYILNFLRTS-
HLDL	-----
KCTD21_MUSMU	R--DGKVFYILNFLRTS-
HLDL	-----
KCTD11_HOMSA	R--DGKAFRHILNFLRLG-
RLDL	-----
KCTD11_MUSMU	R--DGKAFRHILNFLRLG-
RLDL	-----
KCTD4_HOMSA	R--DGLLFRHVLNFLRNG-
ELLL	-----
KCTD4_MUSMU	R--DGLLFRHVLNFLRNG-
ELLL	-----
Q6GMI6_DANRE	R--DGPIFRHILNFLRLG-
ELVL	-----
KCTD8_HOMSA	R--DGFLFRYVLDYLRDK-
QLAL	-----
KCTD8_MUSMU	R--DGFLFRYVLDYLRDK-
QLAL	-----
Q3L1G3_DANRE	R--DGFLFRYVLDFLRDR-
QLVL	-----
KCTD16_HOMSA	R--DGFLFRYILDYLRDR-
QVVL	-----
KCTD16_MUSMU	R--DGFLFRYILDYLRDR-
QVVL	-----
Q3L1G4_DANRE	R--DGFLFRYVLDYLRDK-
QVVL	-----
Q3L1G6_DANRE	R--DGFLFRYVLDYLRDK-
TVVL	-----
Q804Q4_DANRE	R--DGFLFRYILDYLRDL-
NLVL	-----
Q561T3_DANRE	R--DGFLFRYILDYLRDQ-
TLVL	-----
KCNRG_MUSMU	R--DGALFSFILDFLRNH-
ELLL	-----
KCNRG_HOMSA	R--DGDLSFILDFLRTH-
QLLL	-----
KCTD12_HOMSA	R--DGFLFRYILDYLRDL-
QLVL	-----
KCTD12_MUSMU	R--DGFFFRYILDYLRDL-
QLVL	-----
Q9VDH3_DROME	R--DGVLFYILDYLRDK-
ALHL	-----
A0PD34_CAEEEL	R--DGPLFAYVLHFLRTD-
KLSL	-----
KCTD7_HOMSA	R--DGTHFGDVLNFLRSG-

DLPP-----	
KCTD7_MUSMU	R--DGTHFGDVLNFLRSG-
DLPP-----	
Q0V7V7_DANRE	R--DGTYFGDILNFLREG-
ELPQ-----	
KCTD14_HOMSA	R--PSTYFRPILDYLRTG-
QVPT-----	
KCTD14_MUSMU	R--PGTYFGLLLDYLRTG-
QVPT-----	
A0A2R8RRJ7_DANRE	R--DGTLFTHILEYLRTE-
KLPC-----	
KCTD2_HOMSA	R--DPTYFGPILNYLRHG-
KLII-----	
Q0P490_DANRE	R--DPTYFGPILNYLRHG-
KLII-----	
KCTD5_HOMSA	R--DPTYFGPVLNYLRHG-
KLVI-----	
KCTD5_MUSMU	R--DPTYFGPVLNYLRHG-
KLVI-----	
Q6NYY3_DANRE	R--DPTYFGPVLNYLRHG-
KLVL-----	
KCTD2_MUSMU	R--DPTYFGPILNYLRHG-
KLII-----	
KCTD17_HOMSA	R--DPTYFGPILNFLRHG-
KLVL-----	
KCTD17_MUSMU	R--DPTYFGPILNFLRHG-
KLVL-----	
U3JA92_DANRE	R--DPTYFGPILNYLRHG-
KLVI-----	
Q18776_CAEEEL	R--DPDFSPILNYLRHG-
KLIM-----	
Q9W579_DROME	R--DPKYFAPVLNYLRHG-
KLVL-----	
KCTD9_HOMSA	R--SPEYFEPILNYLRHG-
QLIV-----	
KCTD9_MUSMU	R--SPEYFEPILNYLRHG-
QLIV-----	
F1Q5M1_DANRE	R--SPEYFEPILNYLRHG-
QIII-----	
Q6DGD4_DANRE	R--SPDYFEPILNYLRHG-
QLII-----	
Q8T0F7_DROME	R--SPRYFEPINIINYLRHG-
QFVC-----	
KCTD3_HOMSA	R--DPAAFAPILNFLRTK-
ELDL-----	
KCTD3_MUSMU	R--DPAAFAPILNFLRTK-
ELDL-----	
F1Q6W0_DANRE	R--DPTAFAPILNFLRTK-
ELDL-----	
SHKB1_HOMSA	R--DPTVFAPILNFLRTK-

ELDP	
SHKB1_MUSMU	R--DPTVFAPILNFLRTK-
ELDP	
E7FFI2_DANRE	R--DPSLFAPILNFLRTK-
ELHP	
Q9VH62_DROME	R--DPTLFSIILNYLRTK-
DIDI	
017001_CAEEL	R--DPDLFRVILNYLRTK-
QVDL	
Q9TZA6_CAEEL	R--SPKYFETVLNYMRS-
VTVL	
Q18986_CAEEL	R--DSKHFRLILNFLRDG-
QIAL	
Q7JZ62_DROME	R--CGNHFGIILNYLRDG-
TVPL	
KCTD10_HOMSA	R--CGKHFGTILNYLRDG-
AVPL	
KCTD10_MUSMU	R--CGKHFGTILNYLRDG-
GVPL	
Q6P7X5_DANRE	R--CGKHFGTILNYLRDG-
VVPL	
TNFAIP1_HOMSA	R--CGKHFGTILNYLRDD-
TITL	
TNFAIP1_MUSMU	R--CGKHFGTILNYLRDD-
TITL	
F1R5K5_DANRE	R--CGKHFGSILSYLRDG-
FVNL	
KCTD13_HOMSA	R--SGRHFGTILNYLRDG-
SVPL	
KCTD13_MUSMU	R--SGRHFGTILNYLRDG-
SVPL	
A9ULR9_DANRE	R--CGRHFSLVLNFLRDG-
TVPL	
KCTD18_HOMSA	R--
DGRLFKYLLDYLHGEVQIPT	
KCTD18_MUSMU	R--
DGHLFKYILDYHGEVQTPS	
KCTD19_HOMSA	G--DGQMFRHILNFLRLG-
KLFL	
KCTD19_MUSMU	G--DGQMFRHILNFLRLG-
KLFL	
A4IG48_DANRE	EGISSTVFRAILDYYKSG-
IIRC	
X1WDG9_DANRE	EGISSTVFRAILDYYKSG-
IIRC	
BTBDA_MUSMU	EGIGSTVFRAILDYYKTG-
IIRC	
BTBDA_HOMSA	EGIGSTVFRAILDYYKTG-
IIRC	
KCTD20_HOMSA	EGISATVFRTVLDYYKTG-

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IINC-----
KCTD20_MUSMU      EGISATVFRVLDYYKTG-
IINC-----
A0A2R8QE47_DANRE EGIGASIFRIILDFYRVG-
ILHC-----
X2J8G3_DROME      DGISHLVFRAILEYYKSG-
VIRC-----
Q21748_CAEEL      DGMTSSCFRAILDYYQSG-
TMRC-----
WHI2_SACCE         F--PPDCFHEYIMEIYTKA-
HDDLYNHPVEKFFDRPSSSFVSNAGFFGLSSNNSISSNNE
WHI2_CANAL         F--DPQTFQYIINTFYQA-QQDLIQMSTNTTNTLTPV----
TSHNNGRHNNNNNSSRHNRQ
WHI2_SACPO         F--DPSLLQYILNYFQMA-
ENRTANDEI-----ALSP

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KCTD1_HOMSA       ---PDDFKDYTLLEYEAKYFQLQPMLLEMER-WKQDRETGRF
KCTD1_MUSMU       ---PDDFKDYTLLEYEAKYFQLQPMLLEMER-WKQDRETGRF
Q5SNS9_DANRE      ---PDDFKDYSLLEYEARYFQLQPLQVELER-WRSEQDSRFT
KCTD15_HOMSA      ---PDDFKDFSLLYEARYYQLQPMVRELER-WQQEQEQRRR
KCTD15_MUSMU      ---PDDFKDFNLLYEARYYQLQPMVRELER-WQQDQEQRRR
Q6DC02_DANRE      ---PDDFKDFNLLYEARYYQLSPMIKELER-WKQEREQRRL
Q9W2F9_DROME      ---AEDFPDLELLLEARYYEVEPMIKQLES-MRKDRVRNGN
KCTD6_HOMSA       ---PLDFKEFDLLRKEADFYQIEPLIQCLND-PKPLYPMDTF
KCTD6_MUSMU       ---PLDFKEFDLLRKEADFYQIEPLIQCLND-PRPLYPMDTF
Q6DG99_DANRE      ---PVDFTELDLLRKEADFYQIEPLIQCLND-PKPLYPLDTF
KCTD21_HOMSA      ---PEDFQEMGLLRREADFYQVQPLIEALQE-KEVELSKAEK
KCTD21_MUSMU      ---PEDFQEMGLLRREADFYQVQPLIEALQE-KEVELSKAEK
KCTD11_HOMSA      ---PRGYGETALLRAEADFYQIRPLLDALRE-LEASQGTPAP
KCTD11_MUSMU      ---PRGYGETALLKAEADFYQIRPLLDALRE-LEASRGTPAS
KCTD4_HOMSA       ---PEGFRENQLLAQEAFFQLKGLAEVKSWEKEQLTPRE
KCTD4_MUSMU       ---PEGFRENQLLAQEAFFQLKGLAEVKSWEKEQLTPRE
Q6GMI6_DANRE      ---PEDFKETELLRREANFYRLSELAQALQD-WEQQQATQRE
KCTD8_HOMSA       ---PEHFPEKERLLREAIFYQLTDLVKLLSPKVTQNSLNDE
KCTD8_MUSMU       ---PEHFPEKERLLREAFFQLTDLVKLLSPKVTQNSLNDE
Q3L1G3_DANRE      ---PEHFPERERLQREAEHFQLGELLRLLGPRVAKQGS LNDE
KCTD16_HOMSA      ---PDHFPEKGRLKREAIFYQLPDLVKLLTPDEIKQS--PDE
KCTD16_MUSMU      ---PDHFPERGRLKREAIFYQLPDLVKLLAPEDVKQS--PDE
Q3L1G4_DANRE      ---PDHFPEKGRLKREAIFYQLPDLVKLLTPDDLKPS--SDE
Q3L1G6_DANRE      ---PDYFPEKGRLKREAFFQLPELVKILTPDDYSHS-DFDE
Q804Q4_DANRE      ---PDYFPEKSRLQREAEFFQLRDLSKLLSPKMSKDNSITDE
Q561T3_DANRE      ---PDYFKEKASLLKEAIFYQLQDLAKRLKPAVSKENSISEE
KCNRG_MUSMU       ---PSDFADHHRLLQREALFYELDSLVDLLSQFLLQSRSAVME
KCNRG_HOMSA       ---PTEFSDYLRLQREALFYELRSLVDLLNPYLLQPRPALVE
KCTD12_HOMSA      ---PDYFPERSRLQREAEYFELPELVRRLGAPQQPGPGPPPS
KCTD12_MUSMU      ---PDYFPERSRLQREAEYFELPELVRRLGAPQQPGPGPPPS
Q9VDH3_DROME      ---PEGFRERQRLRREAHEFKLTAMLECIRS---ERDARPPG
A0PD34_CAEEL      ---PEQFREVARLKDEADFYRLERFSTLLSN-ASSISPRPRT
KCTD7_HOMSA       ---RERVRA---VYKEAQYYAIGPLLEQLENMQPLKGEKVRQ

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KCTD7_MUSMU ---REHVRA---VHKEAQYYAIGPLLEQLENMQPLKGEKVRQ
Q0V7V7_DANRE ---RDRVRA---VHREAQYYAIGPLLENLEDTQPLTGEKVRQ
KCTD14_HOMSA -----QHIPE---VYREAQFYEIKPLVKLLEDMPQIFGEQVSR
KCTD14_MUSMU -----EYVPE---VYQEAQFYQIHLLVKILEDMPQIFGEQVAR
A0A2R8RRJ7_DANRE -----EHLQE---VHKEAIYYDIKPLVKAIEETPQFFGETVGR
KCTD2_HOMSA ----TKELAEEGVLEEAEFYNIASLVRLVKERIRDNENRTSQ
Q0P490_DANRE ----NKNLAEEGVLEEAEFYNIASLVRLVKERIRDNENRTSQ
KCTD5_HOMSA ----NKDLAEEGVLEEAEFYNIASLVRLVKERIRDNENRTSQ
KCTD5_MUSMU ----NKDLAEEGVLEEAEFYNIASLVRLVKERIRDNENRTSQ
Q6NYY3_DANRE ----NRGLAEEGVLEEAEFYNIASLVRLVKERIRDNENRTSQ
KCTD2_MUSMU ----TKELGEEGVLEEAEFYNIASLVRLVKERIRDNENRTSQ
KCTD17_HOMSA ----DKDMAEEGVLEEAEFYNIASLVRLVKERIRDNENRTSQ
KCTD17_MUSMU ----DKDMAEEGVLEEAEFYNIASLVRLVKERIRDNENRTSQ
U3JA92_DANRE ----NKELAEEGVLEEAEFYNIASLVRLVKERIRDNENRTSQ
Q18776_CAEEEL ----NPGLSEEGVLEEAEFYNIASLVRLVKERIRDNENRTSQ
Q9W579_DROME -----DGVSEEGVLEEAEFYNIASLVRLVKERIRDNENRTSQ
KCTD9_HOMSA ----NDGINLLGVLEEARFFGIDSLIEHLEVAIKNSQPPEDH
KCTD9_MUSMU ----NDGINLLGVLEEARFFGIDSLIEHLEVAIKNSQPPEDH
F1Q5M1_DANRE ----NDGINLLGVLEEARFFGIEQLAEQLEVAIKNSHPPEDH
Q6DGD4_DANRE ----NDGINLLGVLEEARFFGIERLAEQLEGVKNSQPPDDH
Q8T0F7_DROME ----DSNISVLGVLEEARFFGIFSLVTHLEERLQOQETPLGD
KCTD3_HOMSA -----RGVSINVLRHEAEFYGITPLVRRLLLCEELERSSCGS
KCTD3_MUSMU -----RGVSINVLRHEAEFYGITPLVRRLLLCEELERSSCGS
F1Q6W0_DANRE -----RGVNISILRHEAEFYGITPLVRRLLLCEELERSSCGS
SHKB1_HOMSA -----RGVHGSSLLHEAQFYGLTPLVRRLLQREELDRSSCGN
SHKB1_MUSMU -----RGVHGSSLLHEAQFYGLTPLVRRLLQREELDRSSCGN
E7FFI2_DANRE -----RSIDVHLLIHEAEFYGITPLVRRLLQREELDRSSCGN
Q9VH62_DROME -----KNCEIRALRHEAEFYGITPLTKRLALCEDLNHSSCGD
017001_CAEEEL -----CGIKVDTLKHEALFFGLTPLIRRLTLCEELSSTSCGS
Q9TZA6_CAEEEL ---PDSEKELQELKKEAEFYLLQLVDLCEPINNQIRT-YRS
Q18986_CAEEEL ---PDSREVREVLAEASYFLLDPLIELCGERLEQSLNPYYH
Q7JZ62_DROME ---PETNKEIAELLAEAKYYCITELAISERALYAHQ-EPKP
KCTD10_HOMSA ---PESRREIEELLAEAKYYLVQGLVEECQAALQN-KDITYEP
KCTD10_MUSMU ---PESRREIEELLAEAKYYLVQGLLEECQAALQN-KDITYEP
Q6P7X5_DANRE ---PESRRETEELLAEAKYYLVQGLVDECQAALQN-KDAYEP
TNFAIP1_HOMSA ---PQNRQEIQELMAEAKYYLIQGLVNMCSALQDKKDSYQP
TNFAIP1_MUSMU ---PQSRQEIQELMAEAKYYLIQGLVSTCQTALQDKKDSYQP
F1R5K5_DANRE ---PKSRQSIMELLAEAKYYLIQGLIDLQKELQDNKEKALC
KCTD13_HOMSA ---PESTRELGELLGEARYYLVQGLIEDCQLALQKRETLSP
KCTD13_MUSMU ---PESARELGELLGEARYYLVQGLIEDCQLALQKREKLSP
A9ULR9_DANRE ---PDSTRELEEVLEAEQYYRLQGLVQHCLSTLQKRRDVCRG
KCTD18_HOMSA ---DEQTRI--ALQEEADYFGIPYPYSLSDHLANE-METYSL
KCTD18_MUSMU ---DEQTRA--ALQEEADYFGIPYPYSLSDHLANE-METYSL
KCTD19_HOMSA ---PSEFKEWPLFCQEVVEEYHIPSLSEALAQCEAYKSWTQEK
KCTD19_MUSMU ---PSEFKEWPLFCQEVVEEYHIPALSEALAQCEAYKSWTQEK
A4IG48_DANRE ---PDGISIP-ELREACDYLCISFDYSTIK-CRDL SALLMHEL
X1WDG9_DANRE ---PDGISIP-ELREACDYLCISFEYSTIK-CRDL SALLMHEL
BTBDA_MUSMU ---PDGISIP-ELREACDYLCISFEYSTIK-CRDL SALLMHEL
BTBDA_HOMSA ---PDGISIP-ELREACDYLCISFEYSTIK-CRDL SALLMHEL
KCTD20_HOMSA ---PDGISIP-DLRDTCDYLCINFDFNTIR-CQDLSALLHEL

KCTD20_MUSMU	---PDGISIP-DLRDTCDYLCINFDFTIR-CQDLSALLHEL
A0A2R8QE47_DANRE	---PEGVSLA-ELREACDYLCINFDYNTVR-CRDLSALLHEL
X2J8G3_DROME	---PPTVSVP-ELKEACDYLLIPFDATTVR-CQNLSL-LHEL
Q21748_CAEEL	---PSSVSVS-ELREACDYLLVPFNAQTVK-CQNLHALLHEL
WHI2_SACCE	QDILHQPAAIIVLREDLDYYCVPQEEFQFDSTNEENNEDLLR
WHI2_CANAL	ENILETKPAIIVLREDLDFYVIPPFERLNS---EQMKQLKLG
WHI2_SACPO	PPSFPGKCGIILLKEDIEFFILPPISTTNTIAIEVSPNDLLK