

200 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190

27370420.m MVFHRARLLNPMVAVGPLEAQQLSLTVETRDDDEBEHLVASGGFSKVFQARHKRRTQVAIKCSPCLQKETSSEVTCFEEAVKMKKIKFQHVLSYGVCKPLGIVMEFMANGSLEKILLETSLCCKLRFRIIHTSLAMNFLHSIKPPLHLHLDDKPCNTLLDNNMHVKISDFGLSKWMEQSTQKQYIERSALRQTL

34864605.m MVFHRARLLDPMVAVRLEQQLSLTVETRDDDEBEHLVASGGFSQVFOARHKRRTQVAIKCSPCLQKETSSEVTCFEEAVKMKKIKFQHVLSYGVCKPLGIVMEFMANGSLEKILLETSLCCKLRFRIIHTSLAMNFLHSIKPPLHLHLDDKPCNTLLDNNMHVKISDFGLSKWMEQSTQKQYIERSALRQTL

SgK288.h -----MAADPTLELRQLSLEFVETRDDDEBEHLVASGGFSQVFOARHKRRTQVAIKCSPCLQKETSSEVTCFEEAVKMKKIKFQHVLSYGVCKPLGIVMEFMANGSLEKILLETSLCCKLRFRIIHTSLAMNFLHSIKPPLHLHLDDKPCNTLLDNNMHVKISDFGLSKWMEQSTQKQYIERSALRQTL

34868038.m -----MEGEGRRWALQLRFRFDAGEFAGNEKVSQGFQVYKVRHVKIWLAIKCSPLHVVDR--ERMBLEEAKKMEMAKFRYLLFVYICQEPVGLVMEYMEGCSLEKLLASBPLEDRFRIVHETAVGMNPLHGMSPFLHLHLDDKPCNTLLDNNMHVKISDFGLAKCNGMS--HSHDLSMDGLFQTL

18129624.m -----MEGEGRRWALQLRFRFDAGEFAGNEKVSQGFQVYKVRHVKIWLAIKCSPLHVVDR--ERMBLEEAKKMEMAKFRYLLFVYICQEPVGLVMEYMEGCSLEKLLASBPLEDRFRIVHETAVGMNPLHGMSPFLHLHLDDKPCNTLLDNNMHVKISDFGLAKCNGMS--HSHDLSMDGLFQTL

ANKRD3.h -----MEGEGGTFWALALRFRFDAGEFTGNEKVSQGFQVYKVRHVKIWLAIKCSPLHVVDR--ERMBLEEAKKMEMAKFRYLLFVYICQEPVGLVMEYMEGCSLEKLLASBPLEDRFRIVHETAVGMNPLHGMSPFLHLHLDDKPCNTLLDNNMHVKISDFGLAKCNGMS--HSHDLSMDGLFQTL

lias\_TGFBRL-----EDPSLDRPFTSBSGTTLLKDLIYDMTISGSGS-----GLPLLVORTIARTIVLESIGKGRFGEVWRGWRGEE-----

400 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390

27370420.m SYIPEEMFLNNKAPGEFYDVSFAIVLHILTOKKFVAG--LNMHIIITVAAQCRPSPLODVSDEWPEEHHQMVLLMKRC--DDQKRPKPCFLLITETDMLLSL-----FQSMIDPQCBAALQKVSQPSLQSPHKVSKVNOBEIADSVSDSLKW-----IQLSDSKSLVASD-----VYENRVTPLHLFLVA

34864605.m SYIPEEMFLNNKAPGEFYDVSFTHVHILTOKKFVAG--LNMHIIITVAAQCRPSPLODVSDEWPEEHHQMVLLMKRC--DDQKRPKPCFLLITETDMLLSL-----FQSMIDPQCBAALQKVSQPSLQSPHKVSKVNOBEIADSVSDSLKW-----IQLSDSKSLVASD-----VYENRVTPLHLFLVA

SgK288.h -----MAADPTLELRQLSLEFVETRDDDEBEHLVASGGFSQVFOARHKRRTQVAIKCSPCLQKETSSEVTCFEEAVKMKKIKFQHVLSYGVCKPLGIVMEFMANGSLEKILLETSLCCKLRFRIIHTSLAMNFLHSIKPPLHLHLDDKPCNTLLDNNMHVKISDFGLSKWMEQSTQKQYIERSALRQTL

34868038.m AYIPEERIRKESRLFDTKHDVYSFAIVLHILTOKKFVAG--LNMHIIITVAAQCRPSPLODVSDEWPEEHHQMVLLMKRC--DDQKRPKPCFLLITETDMLLSL-----FQSMIDPQCBAALQKVSQPSLQSPHKVSKVNOBEIADSVSDSLKW-----IQLSDSKSLVASD-----VYENRVTPLHLFLVA

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ANKRD3.h AYIPEERIRKESRLFDTKHDVYSFAIVLHILTOKKFVAG--LNMHIIITVAAQCRPSPLODVSDEWPEEHHQMVLLMKRC--DDQKRPKPCFLLITETDMLLSL-----FQSMIDPQCBAALQKVSQPSLQSPHKVSKVNOBEIADSVSDSLKW-----IQLSDSKSLVASD-----VYENRVTPLHLFLVA

lias\_TGFBRL-----EDPSLDRPFTSBSGTTLLKDLIYDMTISGSGS-----GLPLLVORTIARTIVLESIGKGRFGEVWRGWRGEE-----

600 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590

27370420.m CGSLEQVRLRLLSHDVDDCQTASGYTFLLIATQDQQPDLCALLLHAGADNTADSDGWAELHFAAQSCDDHTARLLDHCALVNAREHEGWTFLHLAANNFNENVARLLVSRQADLNSCBABEKTEPLHVAAYFCHIGLVKLLTSGQABLDAAQQRNLRTPHLHLAVRGRVRAIQHLLKRCALPDVLDHNGYSPLHFAAARG

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SgK288.h -----MAADPTLELRQLSLEFVETRDDDEBEHLVASGGFSQVFOARHKRRTQVAIKCSPCLQKETSSEVTCFEEAVKMKKIKFQHVLSYGVCKPLGIVMEFMANGSLEKILLETSLCCKLRFRIIHTSLAMNFLHSIKPPLHLHLDDKPCNTLLDNNMHVKISDFGLSKWMEQSTQKQYIERSALRQTL

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18129624.m CGSLEQVRLRLLSHDVDDCQTASGYTFLLIATQDQQPDLCALLLHAGADNTADSDGWAELHFAAQSCDDHTARLLDHCALVNAREHEGWTFLHLAANNFNENVARLLVSRQADLNSCBABEKTEPLHVAAYFCHIGLVKLLTSGQABLDAAQQRNLRTPHLHLAVRGRVRAIQHLLKRCALPDVLDHNGYSPLHFAAARG

ANKRD3.h CGSLEQVRLRLLSHDVDDCQTASGYTFLLIATQDQQPDLCALLLHAGADNTADSDGWAELHFAAQSCDDHTARLLDHCALVNAREHEGWTFLHLAANNFNENVARLLVSRQADLNSCBABEKTEPLHVAAYFCHIGLVKLLTSGQABLDAAQQRNLRTPHLHLAVRGRVRAIQHLLKRCALPDVLDHNGYSPLHFAAARG

lias\_TGFBRL-----EDPSLDRPFTSBSGTTLLKDLIYDMTISGSGS-----GLPLLVORTIARTIVLESIGKGRFGEVWRGWRGEE-----

800 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790

27370420.m KDLIFKMLDRYQASTLELRQQQWAPLHLATYKCHLEHILHAKSHADLDALGSMQWPHLHAAFCBEGVMLLALQCCANPNAEQSCTEPHLAVHKCTFLGTHLELYGADIHACNKVSWTPAHLAALKKNTAILIKVIVKAAAOVDVKGVSCTHGLAHSPK-----

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SgK288.h -----MAADPTLELRQLSLEFVETRDDDEBEHLVASGGFSQVFOARHKRRTQVAIKCSPCLQKETSSEVTCFEEAVKMKKIKFQHVLSYGVCKPLGIVMEFMANGSLEKILLETSLCCKLRFRIIHTSLAMNFLHSIKPPLHLHLDDKPCNTLLDNNMHVKISDFGLSKWMEQSTQKQYIERSALRQTL

34868038.m HLEIVKLLAKOPQVSVNAQGLDCRTPHLHAAQRGHYRVARITLHDLCSDVNICSQAOPLHVAEETGHTSTARLLHRCAGKEBALTSEGYTALHAAANGHLATVKLLVBEKADVMARGPLNQTALHAAARHSEVVBELVS--ADLIDLSDRQGLSALHAAQRHSGTVEILLKKGAIHNLQSLKFGGGSSATLLR

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ANKRD3.h HLEIVKLLAKOPQVSVNAQGLDCRTPHLHAAQRGHYRVARITLHDLCSDVNICSQAOPLHVAEETGHTSTARLLHRCAGKEBALTSEGYTALHAAANGHLATVKLLVBEKADVMARGPLNQTALHAAARHSEVVBELVS--ADLIDLSDRQGLSALHAAQRHSGTVEILLKKGAIHNLQSLKFGGGSSATLLR

lias\_TGFBRL-----EDPSLDRPFTSBSGTTLLKDLIYDMTISGSGS-----GLPLLVORTIARTIVLESIGKGRFGEVWRGWRGEE-----

27370420.m -----

34864605.m -----

SgK288.h -----

34868038.m RSKT

18129624.m RSKT

ANKRD3.h RSKT

lias\_TGFBRL-----