

Additional file 8: RPS-BLAST alignment of new member of Homeodomain family (1JGG) with Homeodomain representatives (1HDD and 1FJL).

Query= 1JGG

Sequences producing significant alignments:	Score	E
	(bits)	Value
1HDD	61	6e-13
1FJL	45	3e-08

>1HDD
Length = 57

Score = 60.5 bits (147), Expect = 6e-13
Identities = 27/56 (48%), Positives = 42/56 (75%)

Query: 1 RYRTAFTRDQLGRLEKEFYKENYVSRPRRCELAAQLNLPSTIKVWFQNRMRMCKR 56
R RTAF+ +QL RL++EF + Y++ RR +L+++L L E+ IK+WFQN+R K K+

Sbjct: 1 RPRTAFSSEQLARLKREFNENRYLTERRRQQLSSELGLNEAQIKIWFQNKRAKIKK 56

Score = 60.5 bits (147), Expect = 6e-13
Identities = 27/56 (48%), Positives = 42/56 (75%)

Query: 58 RYRTAFTRDQLGRLEKEFYKENYVSRPRRCELAAQLNLPSTIKVWFQNRMRMCKR 113
R RTAF+ +QL RL++EF + Y++ RR +L+++L L E+ IK+WFQN+R K K+

Sbjct: 1 RPRTAFSSEQLARLKREFNENRYLTERRRQQLSSELGLNEAQIKIWFQNKRAKIKK 56

>1FJL
Length = 123

Score = 45.0 bits (107), Expect = 3e-08
Identities = 45/108 (41%), Positives = 62/108 (57%), Gaps = 7/108 (6%)

Query: 13 RLEKEFYKENYVSRPRRCELAAQLNLPSTIKVWFQNRMRMCKRQ-----RYRTAFTR 65
LE+ F + Y R ELA + NL E+ I+VWFQNR + ++Q R RT F+

Sbjct: 16 ELERAFERTQYPDIYTREELAQRINLTEARIQVWFQNRARRLRKQHTSVSQRSRITFSA 75

Query: 66 DQLGRLEKEFYKENYVSRPRRCELAAQLNLPSTIKVWFQNRMRMCKR 113
QL LE+ F + Y R ELA + NL E+ I+VWFQNR + ++

Sbjct: 76 SQLDELERAFERTQYPDIYTREELAQRINLTEARIQVWFQNRARRLRK 123

Score = 35.4 bits (82), Expect = 2e-05
Identities = 24/54 (44%), Positives = 33/54 (61%)

Query: 3 RTAFTRDQLGRLEKEFYKENYVSRPRRCELAAQLNLPSTIKVWFQNRMRMCKR 56
RT F+ QL LE+ F + Y R ELA + NL E+ I+VWFQNR + ++

Sbjct: 70 RTTFASQLDELERAFERTQYPDIYTREELAQRINLTEARIQVWFQNRARRLRK 123