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      10      20      30      40      50      60      70      80      90      100     110     120     130
rsh4  ...lL..LKLaLP.LQ...DGR..L.rAL.vA..LADL.MDA---EVIaAGIL.e.me..-vsl.evr.lG...LLHe..RV...P-----rvd-----LDDe.A..LR.F.L
rsh3  ...V.rA..fA...H---GQ.R..Gd.Y..HCv.t..Il..l..ra..V.A.lLHDVlDDT...l...FG..v..lV..VSrl..NgllRR.RR.....L..Ee...LR.mlL
rsh2  ..d..V..AF..A.AH---G...d.yL.HCVETAv.LA.lG.ns---.VaAGLLHDlD.s..m...i...F...V.DLV..VSkIs.lSKL.R.nn...-A...E...r...M.L
rsh1  E...V.eAlKLAFeAH---dGQkRrSGEPfI.HPV.V.RIL.ELElD---ESi.AGLLHDlVEDTd.VTfE.lE..fG..VR.IVEGETKVSkl.....s.gDvkadDL.QMFL
SpOT  lr.Ay..a...AH---GQ.R.SGEPYITHFvAVA.IIAem.LD---e.lmAALLHDlVEDT-.T..l..FG..VAELVdGVSKldKlkF..-----k.EAQaENFRKMlL
RelA  L.....-.....-.....m..IL..L.mD---.tl.AALlf.....-..l.e.fG..v..Lv.GV..m..i.....-..Qve.lRkMlL

      140     150     160     170     180     190     200     210     220     230     240     250     260
rsh4  -syYDiRAvvvELa.rLD.MRHlD.LPr.qQq..sLE.mqIYAPlAHAvG.G.LS.ELEdlSFr.LFP.SY..vd.WLrs.....-.....-.....-.....-.....
rsh3  ..mV.dp.V.lIkLADRLHNMRtIYA..K...vA.ETL.VMCSLA.rLGmWavKsELEdlCFAVLeP..f..l...W.....-.....-.....-.....-.....
rsh2  AM..DARAVlIKLADRLHNMRtL.aLP..kQq.FA.ETleIfaPLANRLGI.s.K.qLEdl.FK.LnP.eh.eLS.LL...-.....-.....-.....-.....
rsh1  AMTEEVrvIIVKLADRLHNMRtL..MP..KQ..IA.ETL.VFAPLAKLLGmY.IKsELE.LSF.Y...dY..v.rRv..l...-.....-.....-.....-.....
SpOT  AM.rDiRVlIKLADR.HNMRTL.al..dKRRRIArETLEIYaPiAhRLGIh.i..EledL.F..lyP.Ry..l.k.Vk.A-.....-.....-.....-.....
RelA  Amv.DvR.VlIKLa.Rl..LR.....e.r...ArE..dIYAPlANRLGI.QlKWELED.aFRyL.P..YK.IAK.L.Er-----

      270     280     290     300     310     320     330     340     350     360     370     380     390
rsh4  .....k.li.....k.L.aLkA---D..L.mV..v.V.GR.KSRyS.MKKLLrDGR.PEEVnDilGLRVIL.Pr.G.....e.G..
rsh3  .....l.aV..FD.lS.R.....l.v.....aL.L.....L..El.i.Y..l...-vtvS.RLKs.YS.y.KMKRK.v..ri.DARAlrvVVG---D.....i
rsh2  .....mI..s.....-Ai.kLdk.L.....i---L.GR.KSLYSIY.KM.KK...mDeIhDi..LRlIve-----e
rsh1  .....K..E..l.e.....-A..L.e.iq.D.FL...-v.....v...Ke.YSiyr...ks...i.ei..vAQlRiil.....-.....
SpOT  .....RGNRkEvi.k-----T..i..L.....i---v.GREK.LYSIY.KM..K..F..imDiY.FRviV.....v
RelA  .....RldRE.yI.....v..L..L.....i---AeV.GRPKHYSIWkKmq.K.L.F.eLyDvRAvRviv.....l

      400     410     420     430     440     450     460     470     480     490     500     510     520
rsh4  ..ACYR..eIi..mWkevP.RTKDYIarPK.NGY.SLHmAv.vs...-rPL---MElQIRT..M..A..G.ASHsLYK ////////////////
rsh3  ..CY.LL.lvHrLw.PI.GEddYI.NPK.SGYqSLHTAV---GP-DGa-----PIEVQIRT..MHe.AE.G.AA.WLYK.....S.S.....
rsh2  ..dCY.AL..VH.LW..VPGr.KDYI..PK.NGYqSLHTVv---e..v-----PIEVQIRTkeMH..AEfG.AAHWRYKE.....sfV.Q.VeWARWvLTWq.E..
rsh1  qiCYHVLGIvH.mW.PvP..mKDYIATPK.NGYqSLHT.Vi---P...e---mF.LEv.IRte.M..iAe.GIA..s.....R.....n..a.Rv.WL.sIReWQeEFV
SpOT  ..CY..LG.lH.LYKp.PGrFKDYIATPK.NGYqSLHT.VL---GP..Gv-----PvEvQIRT.dM..mAe.GVAAHW.YK.....Q.RA..-RwlqsLlelQ..a..
RelA  qDCY..LGIVH..w..iP.EFDDYiA.PK.NGYqSLHT.Vl---G..Gk-----vEiQIRT..MH..AEIGVAaHWkYKE.....Ye.kI.WLRqlL.W.eem.

      530     540     550     560     570     580     590     600     610     620     630     640     650
rsh3  .....vql.....v.....G...VVi-.d---G..mLV ////////////////
rsh2  ---k.....C.FP.H...C..s-y...d.PvfVImL..d.m.VqE.P..sT..DL.....l..Rln..v...LkMGdVVEl ////////////////
rsh1  ..mssR-----EFV-DTIt.DLLG.-RVFVFTPkGE---i.NLPkGATVVdYAY.iH.eiGN.M-----AKVNG.lV---HVLNAEVVEI...l.s...
SpOT  ---S-----EFi-E.VK.DLFpd-EiYVFTPkGr---iv.LP.GAT.VDFAYAVHTDvGn.CV-----rvn...-PL..L.sG..VEIItA..A-----
RelA  .....v.dD-RvYV.TP.G---VidLP.GaTPIdFAY.iHs.vGHRC-----GAkv.GriV-P...Lq.G.qVEIIt.K...

      660     670     680     690     700     710     720     730     740     750     760     770     780
rsh1  ..R.kg.....A.TRsAR.Ki.K.LrE..l.A..l..d.v..l.....dLl.dIGLG..ms.vvAr.L.....
SpOT  -rPN.AWL.....FVvT.KAR..IR..LK..r..esv.LG.RLL..AL.....i.....l.....
RelA  -.PSRDWLN..LGyl.t.RaRaKi..WF...drdkNi..Gr.lle.ELE.r.....r.....dDl..iG.Gdi.l.v..l

      790     800     810     820     830     840     850     860     870     880     890     900     910
rsh1  .....v.....i...DR.Glla.Vt..l..G..I.....
SpOT  ---l.I.G.eGm.v.fA.CC.PIPGD.Ii.hv..GkGlsvH..C..i---Pekwi..v.W...F...l.v.v.N.g.LA.l..i...sNI..i..e..-d..
RelA  .....v.V.GV.nLm..lArCCqP.P.D.I.GfiTGRGgiSHR.DC.....L..PERvi..v.W...Y.v---i.v.A.DR.GLLRDit.vla.EKvnVl.v.t.s.-.

      920     930     940     950     960
rsh1  ..l..M.F.i...d-nL...s.v..i.GV...-S..C.....
SpOT  .....l..i.V.DR.HLA.vM.RlR.l..V.rv.R.....
RelA  ..A.m...iEv...eL.rvl..l.qv..Vi..rR-----

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