

SNH

BsSYT 1 MSVAFAAPRQR---GKGEITFAAIQKMLDDNNELIQCI MDSQWKGKTSECSQYQMLR TNLVYLAT IADSIQNMQS
GIF1 1 MQQELMQM QPMMA--GYYPSEVTS DHIQQYLDENKSLILKIVESQW SGKLSECAENQARLQRNLMYLAARIADS-Q----
GIF2 1 MQQQSPQMFPMPVP-SIIPANNITTEQIQKYLDENKKLIMAIMENQWLGKLAECAQYQALLQKNLMYLAARIADA-Q----
GIF3 1 NQQSPQMI PMVLPSEFPPTNITTEQIQKYLDENKKLIMAI LENQWLGKLAECAQYQALLQKNLMYLAARIADA-Q----

BsSYT 70 LLPAPPTQNMPMGFGGMNQS GPPPPPSHHMPSDGNVGGGPPAPHMQNMGGQMPGPNHMPMQGPGPNQLMNTNSSMMNP
GIF1 73 --PQPPSVHSQYGSAGGSMIQGE-----
GIF2 75 --PPPPTPGPSPSTAVAAQMATP-----
GIF3 74 --PQPPAATLTSQAMTFQAMRPM-----

Q(P)G(Y)

BsSYT 150 SSSHGSMGGYNHSVPSSQ SMPVQNQMTMSQGGPMGNYGPRPWNMGMQPNQGPMMHQQPSSQQYQMPQGGGQHYQGGQPFMG
GIF1 94 -----GSSHYLQQQRATQQQMT-----QQSLMAARSSMLYAQ---QQQQQPFYAT-L-----QHQLBHSQLG
GIF2 96 -----HSGMQPP-SYFMQHPQAS-----PRGIFAPRGP LQFGS---PLQFQDPQQQQQ-----IHQQAMQGHMG
GIF3 95 -----PSSMQPPSYFMQQHQAVGMAQQI PFGIFPFRGFLQFGS---PHQFLDPQQQ-----LHQQAMQGHMG

BsSYT 230 NMGQVNQGNHMMGQRQIPPYRPPQQGPPQQYSGQEDYYGDQYSHGGQGPPEGMMQQYYPDGSQYGGQQQDAYQGPPFQQG
GIF1 149 MS-----SSSGGGGS-----SGLHILQGEAGGFDFGRG--K-----P-----
GIF2 151 IR-----EMGNTWN-----GMQHAMQQEETGLGN-----
GIF3 155 IR-----EMGLNWN-----GLQHQMHHETALAANNAQPNDAAGGGK-----

BsSYT 310 YFPQQQQYPGQQGYPGQQQGYGPSQGGGPFQYPHYYPQGGQQYGGYRPTQPGPPQFPQQRPYGYDQGYGYQQ
GIF1 180 -----EMSGGGGEGRGGSSGDGGETLYLKSSDDGN
GIF2 176 -----VGLRGGKQDGADEQEK-----DDEK
GIF3 193 -----PDGTMSQSGADQGGSAARHGGDAKTEK