

| | | |
|--------------|---|-----|
| VERVET.CON | MGAATSA.LnrQLDqFE?IRLRPnGKKKYQIKHLIWAGKeMeRFGLHerLLEtEeGCKkIIEVLyPLEP | 68 |
| AGMTYO | -----K-----R----- | 69 |
| AGM155 | -----E-H-----K-D-----K-----S----- | 69 |
| AGM3 | -----K-H-----T-----S----- | 69 |
| AG963 | -----KG-----K-----D-----D-----F----- | 69 |
| GRIVET.CON | MGGGHSa.LSGRSLDTFEKIRLRPNgKKKYQIKHLIWAGKEMERFGLHEKLETKEGCQKIIIEVLTPLP | 69 |
| AGM677 | ----- | 69 |
| TANTALUS.CON | MGaGHSa.LsgRNLDtFEkIRLrPNGkKKYqLKHLIwAGkEMERFGLHdkLLETKEGCQKIIIEVLaPLEp | 69 |
| AGM9 | --V-----A-----R--K-----R-----E-----T--S | 69 |
| AGM17 | -----R-----\$-----E----- | 68 |
| AGM27 | --S--T-----R----- | 69 |
| AGM40 | -----P----- | 69 |
| AGM49 | -----T-----R----- | 69 |
| SABAEUS.CON | MGASNSV.LSGRKLDAFESVRLRPNGKKKYKLRHLVWASKELDRFSLSANLLETKEGVVkiLSVLLPLVP | 69 |
| SABLC | ----- | 69 |
| SYKES.CON | MGAAGSAILTGRELDREYKIRLRPKGKKRYLVRHLVWAKKELDRFGLSDQLMESKEGCEKILTPLLPLEA | 70 |
| SYK | ----- | 70 |
| TANTALUS.CON | MGaGHSa.LsgRNLDtFEkIRLrPNGkKKYqLKHLIwAGkEMERFGLHdkLLETKEGCQKIIIEVLaPLEp | 69 |
| TV_AGM692 | --S-S--K--Q--H-----E-----E--K-----L----- | 69 |
| VERVET.CON | TGSEGLKSLfNLVCVlyCvHke?kVKDTEEAvtVRQcCHLveKEk?A.....????tetsGq. | 121 |
| AGMTYO | -----L--Q-----H-----S----- | 124 |
| AGM155 | -----M--Y-----L--Q--K-----L-I-----D--T-----VTPPG-- | 124 |
| AGM3 | -----F--DKE-----I-----RN-----ERNT----- | 128 |
| AG963 | -----I-R-Q-----R-----P--E----- | 124 |
| 2010G | -----K--S-----A-----R----- | 24 |
| GRIVET.CON | TGSEGLKALFNLCCVIWCiHAEQVKVDTEEAvtVTKQHYHLVDKNEKA.....AK. | 119 |
| AGM677 | ----- | 119 |
| TANTALUS.CON | TGSEGLKSLfNLccVIWCiHAEQVKVDTEEAvtVtkQhCHLveKEKta.....a?PSgGQ. | 122 |
| AGM9 | -----VY-----A-----QS-----A----- | 124 |
| AGM17 | -----V-----T----- | 123 |
| AGM27 | -----I-----A----- | 124 |
| AGM40 | -----T-----V-----AT-R-----ST-----TE--S-- | 124 |
| AGM49 | -----Y-----V-----R--A-----T----- | 124 |
| SABAEUS.CON | TGSENLIALFNLCCVLACiHAEIKVKDTEEAkAKVKEEV.PAEMTESA.....TATSSGQT | 124 |
| SABLC | ----- | 124 |
| SYKES.CON | NGSENLKSLFGIISVVWAVHAKKEVEDTEQAKQKVEACN.WKDDPPATSGGQSENSSQNMASETSSGQK | 139 |
| SYK | ----- | 139 |
| TANTALUS.CON | TGSEGLKSLfNLccVIWCiHAEQVKVDTEEAvtVtkQhCHLveKEKta.....a?PSgGQ. | 122 |
| TV_AGM692 | -----T--C--Q-A-----IRI--Q--D-GEN----- | 117 |
| VERVET.CON |kKnd?g?tappGg.SQNFPaQQQ.GNaWvHVPLSPRTLNAWVKAVEEKkFGAEiVPMFQALSEG | 181 |
| AGMTYO | -----K-IA---C----- | 186 |
| AGM155 |Q--NT-G--T-- | 186 |
| AGM3 |K-V-V-----I----- | 190 |
| AG963 |SNRET----- | 186 |
| 2010G |Q--RSTATSS-Q-----T----- | 86 |
| GRIVET.CON |KKNE..TTAPPGGESRNYPVVNQ.NNAWVHQPLSPRTLNAWVKVEEKRWGAEVVPFQALSEG | 180 |
| AGM677 | ----- | 180 |
| TANTALUS.CON |kQnyn.?aAPpgG?hGNYPVvQQ.NNQVhtPlSPRTLNAWVKtVEEKRFgAEiVPMFQALSEG | 182 |
| AGM9 |Q---L-----R-----Q---V----- | 186 |
| AGM17 |T-----N----- | 185 |
| AGM27 |Q---L-----RD---Q---YV-M-----C-----M----- | 186 |
| AGM40 |HSR.PD--SR-Q----- | 186 |
| AGM49 |TT---Q----- | 186 |
| SABAEUS.CON | KELQAKKNE..PTVTPSGGSRNYPiVSV.NNQVWVHQPLSPRTLNAWVKVIEEKkFSAEVVPMFQALAEg | 191 |
| SABLC | ----- | 191 |
| SYKES.CON | VVQqEKQK...AATPPPRG...NYPLLRNPQNQWIHTGVPVRTLKTWVEAVNSKKFDASIVPLFQALTEG | 203 |
| SYK | ----- | 203 |
| TANTALUS.CON |kQnyn.?aAPpgG?hGNYPVvQQ.NNQVhtPlSPRTLNAWVKtVEEKRFgAEiVPMFQALSEG | 182 |
| TV_AGM692 |AKGIDK..TTPT-S-RSQ--AQ--V--V-----VI--K----- | 180 |

AGM GAG

| | | |
|---------------|---|-----|
| VERVET .CON | CTPYDINQMLNVLGDHQGALQIVKEIINEEAAQWdvtHPpPAGPLPaGQLRDPrgSDiAGTTStVQEQL | 251 |
| AGMTYO | -----L-----S----- | 256 |
| AGM155 | -----G----- | 256 |
| AGM3 | -----IA----- | 260 |
| AG963 | -----P----- | 256 |
| 2010G | -----IQ-----V----- | 156 |
| GRIVET .CON | CLSYDINQMLNVLGDHQGALQILKEVINEEAAEWDRTHRPPAGPLPaGQLRDPrgSDiAGTTSSiQEQIE | 250 |
| AGM677 | ----- | 250 |
| TANTALUS .CON | cLSYDINQmLNVIGDHQGAMQIIKEVINEEAAqWd1tHPPpPAGPLPaGQLRDPrgSDiAGTTStvQEQiE | 252 |
| AGM9 | -----N--A-----V-----I--T- | 256 |
| AGM17 | -----S----- | 254 |
| AGM27 | YI-----V-----I-----SI----- | 256 |
| AGM40 | ----- | 256 |
| AGM49 | -I-----I-----V----- | 256 |
| SABAEUS .CON | AIPYDINQMLNAVGEHQGALQIVKDVINEEAAADWDLRHPppPAGQLRDPrgSDiAGTTSTiQEQIE | 261 |
| SABIC | ----- | 261 |
| SYKES .CON | FIPYDLNGLMNAVGDHQGAMQVIKDIINEEAAWDLHPpPAGQLRDPrgSDiAGTTSSiAEQIE | 273 |
| SYK | ----- | 273 |
| TANTALUS .CON | cLSYDINQmLNVIGDHQGAMQIIKEVINEEAAqWd1tHPPpPAGPLPaGQLRDPrgSDiAGTTStvQEQiE | 252 |
| TV_AGM692 | -TP--V-----L--V-----I-----I--L- | 250 |
| VERVET .CON | WIYTANPRVDVGAIYRRWII LGLQKCVKMYNPVsvLDIRqGPKepFKDYVDRFYkaIRAEQASGEVKKQWM | 321 |
| AGMTYO | ----- | 326 |
| AGM155 | ----- | 326 |
| AGM3 | -----A----- | 330 |
| AG963 | ----- | 326 |
| 2010G | -----I--K-----RT----- | 224 |
| GRIVET .CON | WTFNANPRIDVGAQYRKWVILGLQKVVQMYNPQKVLDIRqGPKepFKDYVDRFYKALRAEQAPQDVKNWM | 320 |
| AGM677 | ----- | 320 |
| TANTALUS .CON | WTFNANpKVDVGRiYRgwVILgLQKCVKMYNPvSVLDIRQGAKePFKDYVDRFYqALRaEQTPQDvKnmW | 322 |
| AGM9 | -----R----- | 326 |
| AGM17 | ----T-----S--R-----I-----G-----R-----S- | 322 |
| AGM27 | -----S-----A-----E----- | 326 |
| AGM40 | -----R--L-----I----- | 326 |
| AGM49 | -----T----- | 326 |
| SABAEUS .CON | WTTRAQNAVNVGNIYKGWII LGLQKCVKMYNPVNI LDIKQGPKEPFKDYVDRFYKALRAEQTDPAVKNWM | 331 |
| SABIC | ----- | 331 |
| SYKES .CON | WITRONNPVQGEIYRRWII LGLQKCVQVYNPVSI LDIKQGPKEIFKDYVDRFYHCLRAEQADPSVKGLW | 343 |
| SYK | ----- | 343 |
| TANTALUS .CON | WTFNANpKVDVGRiYRgwVILgLQKCVKMYNPvSVLDIRQGAKePFKDYVDRFYqALRaEQTPQDvKnmW | 322 |
| TV_AGM692 | -IYT--RI--A--R--A-----R--TG-----PR-S-S-----K-----AS----- | 320 |
| VERVET .CON | TESLLIQNANPDCKVILKGLGMHPTLEEMLTACQVGGPSYKakVMAEMM . . . QnmQsQ . NM . vqg?? . | 383 |
| AGMTYO | -----T--N----- | 388 |
| AGM155 | -----L----- | 388 |
| AGM3 | -----M----- | 392 |
| AG963 | -----R-----T-----AA. | 390 |
| GRIVET .CON | TQTLIIQNANPDCKLILKGLGMNPTLEEMLIACQVGGPQHKAKLMVEMM . . . SN . . GQ . NM . VQVG . . . | 380 |
| AGM677 | ----- | 380 |
| TANTALUS .CON | TeTLLIqNANPDcKLVLKgLGMhPTLEEmLTACQVgGGPGHKAKLMaEaM . . . QnMQGv . nM . vqg? . . . | 383 |
| AGM9 | -----I . T . -AQG . . . | 388 |
| AGM17 | -----H-----R-----I-----Q-----I--H . . . | 384 |
| AGM27 | -----E-----V-----I-----I--P . . . | 388 |
| AGM40 | -----I . T . -AQG . . . | 388 |
| AGM49 | -Q-----N-----V-V . . . -Q-----P . . . | 388 |
| SABAEUS .CON | TQSLIIQNANPDCKTVLKLGMNPTLEEMLTACQIGGAQHARLMAEAMTAAFPQQQTVGNIFVQQGARP | 401 |
| SABIC | ----- | 401 |
| SYKES .CON | TQTLIIQNANPECRQILKAM . VKPTLEEMLIACQVGGPLHKAKLMaEAM . . VMAQQSV . NM . VQGP . . . | 405 |
| SYK | ----- | 405 |
| TANTALUS .CON | TeTLLIqNANPDcKLVLKgLGMhPTLEEmLTACQVgGGPGHKAKLMaEaM . . . QnMQGv . nM . vqg? . . . | 383 |
| TV_AGM692 | -D-----E--VI-----QY-----V-M- . . . NQ-----QA . . . | 382 |

| | | |
|--------------|---|-----|
| VERVET.CON | ..GgrgR?RPP...lkCYNCGKFGHMQRQCpEPRKikCLKCGK?GHLAKDCR.....GQVNFLGY | 436 |
| AGMTYO | ..-PK.-Q---.R-----T-----L----- | 442 |
| AGM155 | ..---P---.P-----P----- | 443 |
| AGM3 | ..-Q---P---.V-----MR-----P----- | 447 |
| AG963 | ..--VR-Q---.T-----L----- | 445 |
| GRIVET.CON | ..PQKKGPRGP...LKCFNCGKFGHMQRQCKAPRQIKCFKCGKIGHMAKDCKN.....GQANFLGY | 436 |
| AGM677 | ..... | 436 |
| TANTALUS.CON | ..prgGRGRGpRGP.pRCFkCGQIGHiQKDCprgGPiKCLKCGKpGmAkDCRs.....GQANFLGR | 441 |
| AGM9 | ..---T-----N-----L-R---T----- | 445 |
| AGM17 | ..SK-----V-----R-----G-----R- | 442 |
| AGM27 |Q-A-T----- | 446 |
| AGM40 | ..---S---.V--R-----K----- | 445 |
| AGM49 | ..S-----V----- | 446 |
| SABAEUS.CON | RGPLGGRGRPLNPNTKCYNCGKPGHILARFCKAPRRQGCWKCGSPDHQMKDCQK.....QVNFLGF | 461 |
| SABLC | ..... | 461 |
| SYKES.CON | ..SKGRSM.....IKCYNCGQIGHMQKDKCKPLKAKCFNCGKTGHLARACRQPKRNQGPVAGQANFLGK | 467 |
| SYK | ..... | 467 |
| TANTALUS.CON | ..prgGRGRGpRGP.pRCFkCGQIGHiQKDCprgGPiKCLKCGKpGmAkDCRs.....GQANFLGR | 441 |
| TV_AGM692 | ..GI-----P..VK-Y---KF--V--N-TQK--VV-----F-R-----AV---Y | 438 |
| VERVET.CON | G.RWmG?KPRNFp...AATlG?.EPsAPPPPs.....??PYDPAKLLQYAEKKGQ | 479 |
| AGMTYO | -.---A-----A-----GTT----- | 490 |
| AGM155 | -.---T-----A-----N-----NST----- | 491 |
| AGM3 | -.---A-----V.--T-----S-----D---- | 492 |
| AG963 | -.---T-T---L...H-V-----T----- | 490 |
| GRIVET.CON | G.HWGGAKPRNFVQYRGDTVGL.EPTAPPME.....TAYDPAKLLQYAEKQR | 484 |
| AGM677 | ..... | 484 |
| TANTALUS.CON | MptPwGSKPRNFL...EQgGa.VPTApp?paH.....gfptGpp?a?GAYDPAkRLLeQYaKkgdQ | 495 |
| AGM9 | -.---D-----L-----ETSV--T.-R----- | 500 |
| AGM17 | -.---A-\$-----IA-----VA-----G----- | 497 |
| AGM27 | -.---R-----KKM-----V---L.-A-----R-----E-- | 502 |
| AGM40 | -.---M-T-----Q----- | 500 |
| AGM49 | -.---RL-T-----V---SDWR-----T---E- | 503 |
| SABAEUS.CON | G.PWGRGKPRNF...PLTSIRPTAPPMERDYSRPEENWYADRPPTRGPGDDPATALLKQYAVQGKR | 524 |
| SABLC | ..... | 524 |
| SYKES.CON | GWGVSRRPPANF...PVRS.EPSAPPLED...IEDGPWLTWSAQMSQQAQAKAQNSPSKKPPTNRE | 526 |
| SYK | ..... | 526 |
| TANTALUS.CON | MptPwGSKPRNFL...EQgGa.VPTApp?paH.....gfptGpp?a?GAYDPAkRLLeQYaKkgdQ | 495 |
| TV_AGM692 | G.RWM-A--K---.HRA-.--S-.--P-P-----NP---E-T---K-TQE-A- | 485 |
| VERVET.CON | lReQ??n.pPa?NPDWtEGYSLNSLFGEDQ\$ | 505 |
| AGMTYO | ---KR---M----- | 519 |
| AGM155 | M-N-NR---N---N----- | 520 |
| AGM3 | ---RKK---V----- | 521 |
| AG963 | ---GKR.T-PT---A----- | 519 |
| GRIVET.CON | LREEREQ.TRKQKEKEVEDVSLSSLFGGDQ | 513 |
| AGM677 | ..... | 513 |
| TANTALUS.CON | LrkQKE.....KELEDYSLSSLFGEDQ | 517 |
| AGM9 | ..... | 522 |
| AGM17 | --R---..... | 513 |
| AGM27 | -K---..... | 524 |
| AGM40 | --R---..... | 522 |
| AGM49 | ..... | 525 |
| SABAEUS.CON | QKQWQNHSPQQSPYEEAYSSLRSLFGEDQ | 554 |
| SABLC | ..... | 554 |
| SYKES.CON | VLSPKE..SSGKEETKSLYPSLSSLFGEDQ | 554 |
| SYK | ..... | 554 |
| TANTALUS.CON | LrkQKE.....KELEDYSLSSLFGEDQ | 517 |
| TV_AGM692 | Q-RKV-.KSSQAGR-E-----K----- | 513 |