

Bombyx mori		0
Manduca sexta	MTLLRYINRQFINKFFFRNLSDNFTTGMSRVKSFINAYFNHYINLPIE	50
Ostrinia furnacalis	...MFSLQLNKTVGKCLHTTNLRKIRFLSQNCFTSGIAKLETFLNAYFNHYINLPIE	56
Pectinophora gossypiella	MSSGI.RNEAFINAYFNHYINLPIE	25
Spodoptera litura	MYFKIINSVPTHRNEVLKSVFFRSHAVRNFSQENFSTGLTTTDRFLNAYMFHYTNLPIQ	60
Bombyx mori	MVPKSYFGSSTGCSDIKTSITLLEVA	28
Manduca sexta	NKILATYVWIDGSGIHMFCKDRILNKFCDISMVPKSYFGSSTGCAKTINDSITLLEVA	110
Ostrinia furnacalis	NKIFATYVWIDGSGIHMFCKDRIIDQIFCDIRMVFKSYFGSSTGCATTINDSITLLEVA	116
Pectinophora gossypiella	DKVFAFYVWIDGSGIHMFCKDRILNKVFNHISMVPKSYFGSSTGCAKTINDSITLLEVA	85
Spodoptera litura	NKIFATYVWIDGSGIHMFCKDRVIDRVFCNIMVPKSYFGSSTGCARTEDSITLLEVA	120
Bombyx mori	VYRDFRRKSPHIVLCETYSSEGLPTETNHRVSSAINTLSRISDQESVFGIEQEYTMFLD	88
Manduca sexta	IYRDFRRKSPHIVLCETTYGDCPTETNHRHAGQQLSRISDQESVFGIEQEYTMFLD	170
Ostrinia furnacalis	IYRDFRRKSPHIVLCETTYGDCMPTETNHRHAGQKVLSTITDQESVFGIEQEYTMFLD	176
Pectinophora gossypiella	MYRDFRRKSPHIVLCETTYDNGTPTETNHRHAGQKVLSTISKDESFGIEQEYTMFLD	145
Spodoptera litura	IYRDFRRKSPHIVLCETTYGDCPTETNHRHAGQNLISRLSDQESVFGIEQEYTMFLD	180
Bombyx mori	HWFLGWPRVRGYS.DQDSKNSYCCVGEHVAGREIAECHARACTISGMDYCGSNAEVMRGS	147
Manduca sexta	HWFLGWPRVRGYS.VTKSKSYCCVGEHVAGRDIVECHTFACTAGMDYCGSNAEVMRGS	229
Ostrinia furnacalis	HWFLGWPRVRGYS.VLKSRYSYCCVGEHVAGREVVECHARACTISGMDYCGSNAEVMRGS	235
Pectinophora gossypiella	HWFLGWPRVRGYS.SVGENRFSYCCVGFYVVGREIAECHARACTAGMDYCGSNAEVMRGA	205
Spodoptera litura	HWFLGWPRVRGYS.VIKSKSYCCVGEHIAAGRELAECHARACTAGMDYCGSNAEVMRGS	239
Bombyx mori	WEFQVGPTIGFAAADLWVGRYLIGFAENEGVVISHPPEMKGHAGTGCHHNFSVRKM	207
Manduca sexta	WEFQVGPTIGFAAADLWVGRYLIGFAENEGVVISHPPEVGNQEGTGCHHNFSVRKM	289
Ostrinia furnacalis	WEFQVGPTIGFAAADLWVGRYLIGFAENEGVVISHPPEMKGDKQEGTGCHHNFSVRKM	295
Pectinophora gossypiella	WEFQVGPTIGFAAADLWVGRYLIGFAENEGATISHPPEMKGHAGTGCHHNFSVRKM	265
Spodoptera litura	WEFQVGPTIGFAAADLWVGRYLIGFAENEGVVISHPPEVGNQEGTGCHHNFSVRKM	299
Bombyx mori	RATCGVTPIKRICRILQDCHEINIISYDTRICEDNRRLVGRFETSSYFSCQSVGISDRGA	267
Manduca sexta	RCIGGLREIERVCRILQDCHEKLINMYGLGCEENRRLTGKREPTASYSQRWGVADRGGA	349
Ostrinia furnacalis	RCIDGVREIERVCRILGERHETVMSSYGLGCEENRRLTGKREPTASFTQRWGVADRGGA	355
Pectinophora gossypiella	RSEGLPEVQRVCRILGERHTTYIRMYGLGCEENRRLTGKREPTAPYFSCQRWGVADRGGA	325
Spodoptera litura	RDEGGITEIERVCRVLCARHGDMYHMYGLGCEENRRLTGKREPTASFTQRWGVADRGGA	359
Bombyx mori	SIRLQKRVISEGKGYGEIRRFAGCDFYVVCALIAETGI	306
Manduca sexta	SVFLQKRVISEGKGYGEIRRFAGCDFYVVCALIAETGL	388
Ostrinia furnacalis	SIRLQKRVISEGKGYGEIRRFAGCDFYVVCALIAETGS	394
Pectinophora gossypiella	SIRLQKRVISEGKGYGEIRRFAGCDFYVVCALIAETGL	364
Spodoptera litura	SIRLQKRVISEGKGYGEIRRFAGCDFYVVCALIAETGV	398

Figure S2. Multiple sequence alignment of GS1 proteins from several lepidopteran insects.