

Supplementary Material

Biodiversity, evolution and ecological specialization of baculoviruses: a treasure trove for future applied research

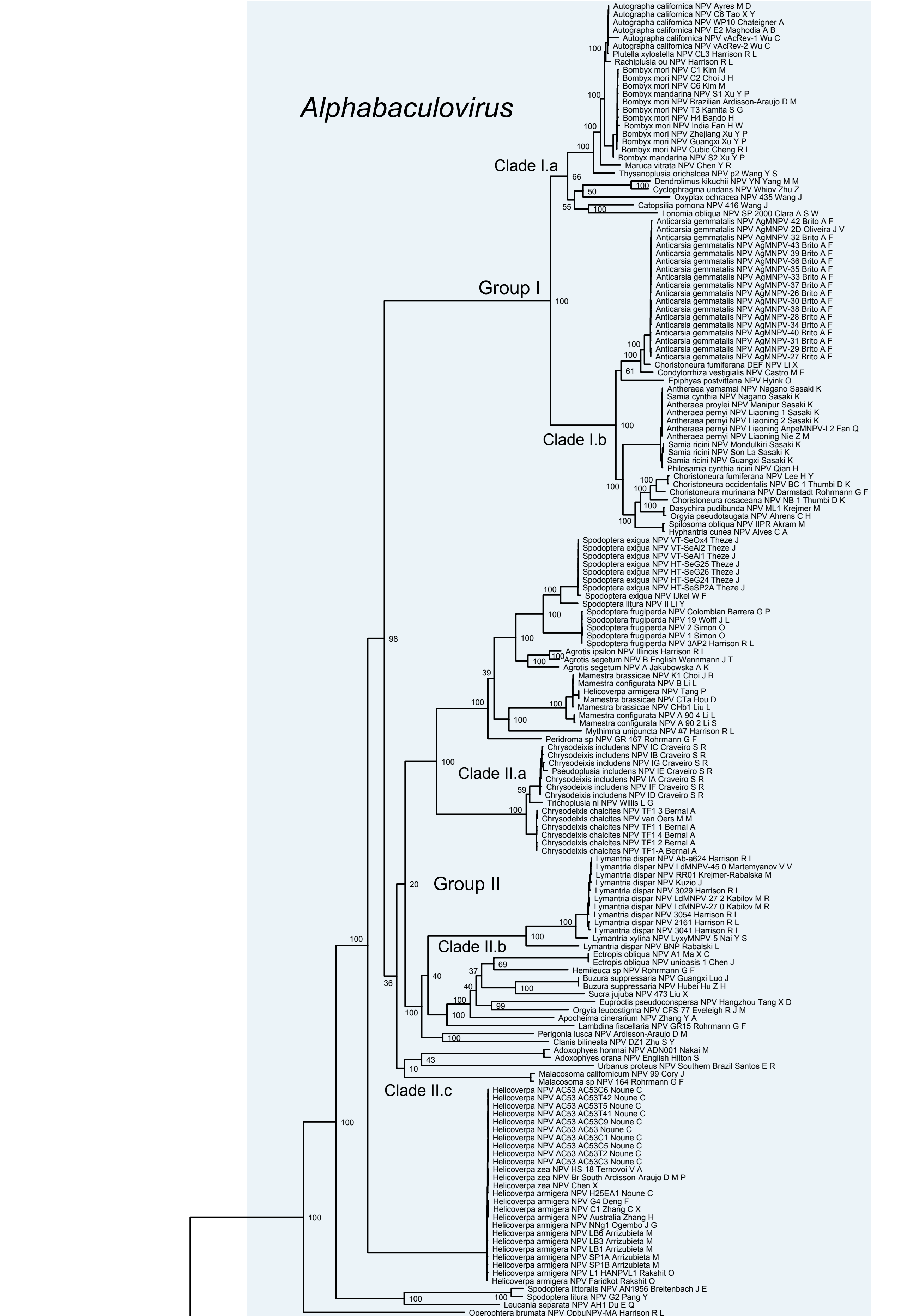
Julien Thézé^{1,2}; Carlos Lopez-Vaamonde^{1,3}; Jennifer S. Cory⁴; Elisabeth A. Herniou¹

Legends of Supplementary figures

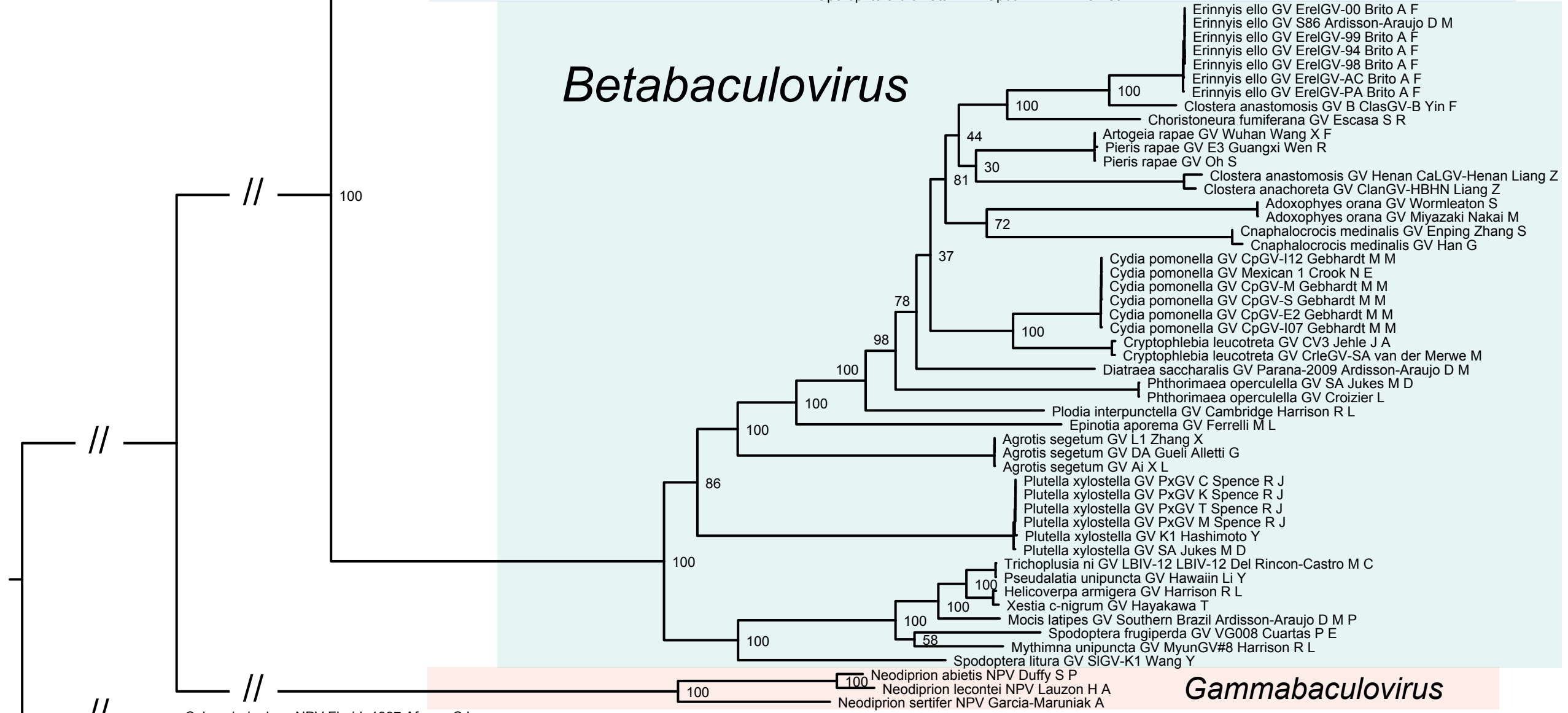
Figure S1. Baculovirus core-genome phylogeny. The tree was obtained from maximum likelihood inference analysis of the concatenated amino acid alignment of the 37 baculovirus core genes. Statistical support for nodes in the ML tree was assessed using a bootstrap approach (with 100 replicates).

Figure S2. Baculovirus isolate phylogeny (one panel Figure 1). The tree was obtained from a maximum likelihood inference analysis of the concatenated codon-based alignment (794 taxa) of four lepidopteran baculovirus core genes with the baculovirus core-genome phylogeny used as backbone tree. External clades coloured in red correspond to clusters determined by both the mPTP and SpDelim species delimitation analysis and in blue the clusters not determined by SpDelim. The two star symbols points out the same node in the tree. Baculovirus isolates generated in this study are highlighted in orange. Statistical support for nodes in the tree corresponds to bootstraps (with 100 replicates).

Alphabaculovirus



Betabaculovirus



Gammabaculovirus

Deltabaculovirus

0.3

Alphabaculovirus

Clade I.a

Group I

Clade I.b

Group II

Clade II.a

Clade II.b

Clade II.c

Betabaculovirus

Deltabaculovirus

Gammabaculovirus

Table S1. Baculovirus isolate sequence database

Virus name	Isolate	Strain	Author	Complete genome	lef-8 protein accession	lef-8 nucleotide accession	lef-9 protein accession	lef-9 nucleotide accession	pif-2 protein accession	pif-2 nucleotide accession	polh protein accession	polh nucleotide accession
Abraxas grossulariata NPV	112	-	Herniou E A/Thézé J.	No	AAS18581.1	AY449781.1	-	-	AAS13379.1	AY449761.1	AA_EH_112_POLH	NT_EH_112_POLH
Achaea faber NPV	64	-	Herniou E A/Thézé J.	No	AA_EH_64_LEF8	NT_EH_64_LEF8	AA_JT_64_LEF9	NT_JT_64_LEF9	AA_JT_64_PIF2	NT_JT_64_PIF2	AA_EH_64_POLH	NT_EH_64_POLH
Achaea janata GV	-	Hyderabad	Kumar P N.	No	-	-	-	-	-	-	AGE11467.1	JX426115.1
Achaea janata GV	-	Hyderabad	Naveen Kumar P.	No	-	-	AGC54761.1	JX987080.1	-	-	AFS31343.1	JX392405.1
Actias selene NPV	-	S1	Jehle J A.	No	AAW49021.1	AY706527.1	AAW49085.1	AY706592.1	-	-	AAW49170.1	AY706680.1
Actias selene NPV	-	S2	Jehle J A.	No	AAW49019.1	AY706525.1	AAW49083.1	AY706590.1	-	-	AAW49168.1	AY706678.1
Actias selene NPV	-	ST28	Skowron M A.	No	-	-	AKR71439.1	KR057235.1	-	-	AKR71440.1	KR057236.1
Adoxophyes honmai NPV	ADN001	-	Nakai M.	Yes	BAC67300.1	AP006270.1	BAC67286.1	AP006270.1	BAC67346.1	AP006270.1	BAC67252.1	AP006270.1
Adoxophyes orana GV	E1	-	Wormleaton S L.	No	-	-	-	-	-	-	AAL02082.1	AF337646.1
Adoxophyes orana GV	Miyazaki	-	Nakai M.	Yes	AJA91751.1	KM226332.1	AJA91740.1	KM226332.1	AJA91679.1	KM226332.1	AJA91641.1	KM226332.1
Adoxophyes orana GV	-	A2-3	Lange M.	No	AAT10273.1	AY519259.1	AAT10274.1	AY519260.1	-	-	AAT10272.1	AY519258.1
Adoxophyes orana GV	-	A6-5	Jehle J A.	No	AAW49023.1	AY706529.1	AAW49087.1	AY706594.1	-	-	AAW49147.1	AY706657.1
Adoxophyes orana GV	-	Capex1-L2	Kundu J K.	No	-	-	-	-	-	-	ABW84265.1	EU107362.1
Adoxophyes orana GV	-	Capex-L9	Kundu J K.	No	-	-	-	-	-	-	ABW84266.1	EU107363.1
Adoxophyes orana GV	-	H	Kundu J K.	No	-	-	-	-	-	-	ABW84263.1	EU107360.1
Adoxophyes orana GV	-	S45	Jehle J A.	No	AAW49024.1	AY706530.1	AAW49088.1	AY706595.1	-	-	AAW49148.1	AY706658.1
Adoxophyes orana GV	-	-	Wormleaton S.	Yes	AAP85747.1	AF547984.1	AAP85737.1	AF547984.1	AAP85676.1	AF547984.1	AAP85638.1	AF547984.1
Adoxophyes orana NPV	-	English	Hilton S.	Yes	ACF05338.1	EU591746.1	ACF05325.1	EU591746.1	ACF05382.1	EU591746.1	ACF05293.1	EU591746.1
Aglais urticae NPV	a7	-	Herniou E A/Thézé J.	No	AA_EH_a7_LEF8	NT_EH_a7_LEF8	AA_JT_a7_LEF9	NT_JT_a7_LEF9	AA_JT_a7_PIF2	NT_JT_a7_PIF2	AA_EH_a7_POLH	NT_EH_a7_POLH
Agraulis sp NPV	-	M34-3	Jehle J A.	No	AAW49026.1	AY706532.1	AAW49090.1	AY706597.1	-	-	AAW49172.1	AY706682.1
Agraulis vanillae NPV	779	-	Herniou E A/Thézé J.	No	AA_JT_779_LEF8	NT_JT_779_LEF8	AA_JT_779_LEF9	NT_JT_779_LEF9	-	-	AA_EH_779_POLH	NT_EH_779_POLH
Agrotis exclamationis GV	-	S46	Jehle J A.	No	AAW49025.1	AY706531.1	AAW49089.1	AY706596.1	-	-	AAW49149.1	AY706659.1
Agrotis exclamationis NPV	-	JW11-12_232-422	Wennmann J T.	No	-	-	-	-	-	-	AIZ35743.1	KJ995661.1
Agrotis exclamationis NPV	-	-	Jakubowska A K.	No	-	-	-	-	-	-	ACV96602.1	GQ475265.1
Agrotis ipsilon MNPV	Illinois	-	Harrison R L.	Yes	ACI28831.1	EU839994.1	ACI28814.1	EU839994.1	ACI28744.1	EU839994.1	ACI28703.1	EU839994.1
Agrotis ipsilon MNPV	-	AgipNPV_Agip	Lange M.	No	-	-	-	-	-	-	AAN16521.1	AY136483.1
Agrotis ipsilon MNPV	-	AgipNPV_Agse	Lange M.	No	-	-	-	-	-	-	AAN16522.1	AY136484.1
Agrotis ipsilon MNPV	-	Illinois	Barney W E.	No	-	-	-	-	-	-	AAY41434.1	DQ014543.1
Agrotis ipsilon MNPV	-	Kentucky	Barney W E.	No	-	-	-	-	-	-	AAY41433.1	DQ014542.1
Agrotis ipsilon MNPV	-	M6-2	Lange M.	No	AAT10219.1	AY519205.1	AAT10220.1	AY519206.1	-	-	AAT10218.1	AY519204.1
Agrotis segetum GV	DA	-	Gueli Alletti G.	Yes	AKN63408.1	KR584663.1	AKN63395.1	KR584663.1	AKN63324.1	KR584663.1	AKN63275.1	KR584663.1
Agrotis segetum GV	L1	-	Zhang X.	Yes	AHN92170.1	KC994902.1	AHN92157.1	KC994902.1	AHN92089.1	KC994902.1	KC994902.1	KC994902.1
Agrotis segetum GV	-	A17-5	Jehle J A.	No	AAW49027.1	AY706533.1	AAW49091.1	AY706598.1	-	-	AAW49150.1	AY706660.1
Agrotis segetum GV	-	S47	Jehle J A.	No	AAW49028.1	AY706534.1	AAW49092.1	AY706599.1	-	-	AAW49151.1	AY706661.1
Agrotis segetum GV	-	-	Ai X L.	Yes	AAS82620.1	AY522332.4	AAS82631.1	AY522332.4	AAS82695.1	AY522332.4	AY522332.4	AY522332.4
Agrotis segetum NPV A	-	A12-3	Jehle J A.	No	AAW49029.1	AY706535.1	AAW49093.1	AY706600.1	-	-	AAW49173.1	AY706683.1
Agrotis segetum NPV A	-	AgseNPV-P	Jakubowska A.	No	AAY41227.2	AY971676.2	-	-	AAY41228.1	AY971677.1	AAY41226.1	AY971675.1
Agrotis segetum NPV A	-	AgseNPV-UK	Jakubowska A.	No	AAY41229.1	AY971678.1	-	-	AAY41230.1	AY971679.1	-	-
Agrotis segetum NPV A	-	-	Jakubowska A K.	Yes	AAZ38287.1	DQ123841.1	AAZ38271.1	DQ123841.1	AAZ38202.1	DQ123841.1	AAZ38167.1	DQ123841.1
Agrotis segetum NPV A	-	-	Lange M.	No	-	-	-	-	-	-	AAN16520.1	AY136482.1
Agrotis segetum NPV B	-	English	Wennmann J T.	Yes	AIZ48676.1	KM102981.1	AIZ48658.1	KM102981.1	AIZ48594.1	KM102981.1	AIZ48559.1	KM102981.1
Amelia pallorana GV	-	M30-1	Lange M.	No	AAT10222.1	AY519208.1	AAT10223.1	AY519209.1	-	-	AAT10221.1	AY519207.1
Pareuchaetes pseudoinsulata NPV	175	-	Herniou E A/Thézé J.	No	AA_EH_175_LEF8	NT_EH_175_LEF8	AA_JT_175_LEF9	NT_JT_175_LEF9	AA_JT_175_PIF2	NT_JT_175_PIF2	AA_EH_175_POLH	NT_EH_175_POLH
Amorbia cuneacapsa NPV	-	A8-3	Jehle J A.	No	AAW49031.1	AY706537.1	AAW49095.1	AY706602.1	-	-	AAW49175.1	AY706685.1
Amorbia cuneana NPV	-	-	Sciocco A.	No	ACD86347.1	EU698889.1	ACD86348.1	EU698890.1	-	-	ACD86349.1	EU698891.1
Amsacta albitriga NPV	-	-	Prenkumar A.	No	-	-	-	-	-	-	AAD24463.1	AF118850.1
Anagrapha falcifera MNPV	-	3135	Rowley D L.	No	AEY76287.1	JN674780.1	AEY76369.1	JN674776.1	-	-	AEY76315.1	JN674772.1
Anagrapha falcifera MNPV	-	A5-3	Jehle J A.	No	AAW49033.1	AY706539.1	AAW49097.1	AY706604.1	-	-	AAW49176.1	AY706686.1
Anagrapha falcifera MNPV	-	DN10	Rose J.	No	AGJ50492.1	KC800710.1	AGJ50493.1	KC800711.1	-	-	AGJ50494.1	KC800712.1
Anagrapha falcifera MNPV	-	-	Federici B A.	No	-	-	-	-	-	-	AAB53357.1	U64896.1
Andraca bipunctata GV	-	S48	Jehle J A.	No	AAW49032.1	AY706538.1	AAW49096.1	AY706603.1	-	-	AAW49152.1	AY706662.1
Andraca bipunctata GV	-	-	Zhang D.	No	-	-	-	-	-	-	AAS86810.1	AY518318.1
Anomis sabulifera NPV	14	-	Herniou E A/Thézé J.	No	AA_EH_14_LEF8	NT_EH_14_LEF8	AA_JT_14_LEF9	NT_JT_14_LEF9	-	-	AA_EH_14_POLH	NT_EH_14_POLH
Antheraea pernyi NPV	A	-	Kobayashi J.	No	-	-	-	-	-	-	BAB58969.1	AB062454.1
Antheraea pernyi NPV	Liaoning	1	Sasaki K.	Yes	BAX08873.1	LC194889.1	BAX08862.1	LC194889.1	BAX08901.1	LC194889.1	BAX08770.1	LC194889.1
Antheraea pernyi NPV	Liaoning	2	Sasaki K.	Yes	BBD51017.1	LC375540.1	BBD51005.1	LC375540.1	BBD51047.1	LC375540.1	BAX08920.1	LC194890.1
Antheraea pernyi NPV	Liaoning	3	Sasaki K.	No	-	-	-	-	-	-	BBD50912.1	LC375540.1
Antheraea pernyi NPV	Liaoning	AnpeMNPV-L2	Fan Q.	Yes	ABQ12328.1	EF207986.1	ABQ12317.1	EF207986.1	ABQ12357.1	EF207986.1	ABQ12229.1	EF207986.1
Antheraea pernyi NPV	Liaoning	-	Nie Z M.	Yes	ABF50334.1	DQ486030.3	ABF50325.1	DQ486030.3	ABF50357.1	DQ486030.3	ABF50243.1	DQ486030.3
Antheraea pernyi NPV	-	S4	Jehle J A.	No	ABB16310.1	DQ231349.1	ABB16309.1	DQ231348.1	-	-	ABB16308.1	DQ231347.1
Antheraea pernyi NPV	-	S5	Jehle J A.	No	AAW49034.1	AY706540.1	AAW49098.1	AY706605.1	-	-	AAW49177.1	AY706687.1
Antheraea pernyi NPV	-	-	Shi S L.	No	-	-	-	-	-	-	AAU89798.1	AY685706.1
Antheraea pernyi NPV	-	-	Yuwen H.	No	-	-	-	-	-	-	AAA46738.1	M57429.1
Antheraea proylei NPV	Manipur	-	Sasaki K.	Yes	BBD50863.1	LC375539.1	BBD50851.1	LC375539.1	BBD50893.1	LC375539.1	BBD50759.1	LC375539.1
Antheraea yamamai NPV	Nagano	1	Sasaki K.	No	-	-	-	-	-	-	BAX08921.1	LC194891.1
Antheraea yamamai NPV	Nagano	2	Sasaki K.	No	-	-	-	-	-	-	BBD50455.1	LC375537.1
Antheraea yamamai NPV	Nagano	-	Sasaki K.	Yes	BBD50558.1	LC375537.1	BBD50546.1	LC375537.1	BBD50588.1	LC375537.1	-	-
Anthophila fabriciana GV	790	-	Herniou E A/Thézé J.	No	AA_JT_790_LEF8	NT_JT_790_LEF8	AA_JT_790_LEF9	NT_JT_790_LEF9	AA_JT_790_PIF2	NT_JT_790_PIF2	AA_EH_790_POLH	NT_EH_790_POLH
Anticarsia gemmatalis MNPV	-	AgMNPV-00_01	Ferreira B C.	No	-	-	-	-	AHI12786.1	KF765835.1	-	-
Anticarsia gemmatalis MNPV	-	AgMNPV-01_02	Ferreira B C.	No	-	-	-	-	AHI12787.1	KF765836.1	-	-
Anticarsia gemmatalis MNPV	-	AgMNPV-02_03	Ferreira B C.	No	-	-	-	-	AHI12788.1	KF765837.1	-	-
Anticarsia gemmatalis MNPV	-	AgMNPV-26	Brito A F.	Yes	ALR69916.1	KR815455.1	ALR69905.1	KR815455.1	ALR69958.1	KR815455.1	ALR69812.1	KR815455.1
Anticarsia gemmatalis MNPV	-	AgMNPV-27	Brito A F.	Yes	KR815456.1	ALR70074.1	KR815463.1	ALR70116.1	KR815456.1	KR815456.1	KR815469.1	KR815456.1
Anticarsia gemmatalis MNPV	-	AgMNPV-28	Brito A F.	Yes	ALR70231.1	KR815457.1	ALR70220.1	KR815457.1	ALR70273.1	KR815457.1	ALR70126.1	KR815457.1
Anticarsia gemmatalis MNPV	-	AgMNPV-29	Brito A F.	Yes	ALR70388.1	KR815458.1	ALR70377.1	KR815458.1	ALR70430.1	KR815458.1	ALR70283.1	KR815458.1
Anticarsia gemmatalis MNPV	-	AgMNPV-2D	Oliveira J V.	Yes	AB113835.1	DQ813662.2	AB113796.1	DQ813662.2	AB113796.1	DQ813662.2	AB113785.1	DQ813662.2
Anticarsia gemmatalis MNPV	-	AgMNPV-30	Brito A F.	Yes	ALR70544.1	KR815459.1	ALR70533.1	KR815459.1	ALR70586.1	KR815459.1	ALR70440.1	KR815459.1
Anticarsia gemmatalis MNPV	-	AgMNPV-31	Brito A F.	Yes	ALR70701.1	KR815460.1	ALR70690.1	KR815460.1	ALR70743.1	KR815460.1	ALR70596.1	KR815460.1
Anticarsia gemmatalis MNPV	-	AgMNPV-32	Brito A F.	Yes	KR815461.1	ALR70858.1	ALR70847.1	KR815461.1	ALR70900.1	KR815461.1	KR815461.1	KR815461.1
Anticarsia gemmatalis MNPV	-	AgMNPV-33	Brito A F.	Yes	ALR71016.1	KR815462.1	ALR71005.1	KR815462.1	ALR71058.1	KR815462.1	ALR70911.1	KR815462.1
Anticarsia gemmatalis MNPV	-	AgMNPV-34	Brito A F.	Yes	ALR71173.1	KR815463.1	ALR71162.1	KR815463.1	ALR71216.1	KR815463.1	ALR71068.1	KR815463.1
Anticarsia gemmatalis MNPV	-	AgMNPV-35	Brito A F.	Yes	ALR71331.1	KR815464.1	ALR71320.1	KR815464.1	ALR71373.1	KR815464.1	ALR71226.1	KR815464.1
Anticarsia gemmatalis MNPV	-	AgMNPV-36	Brito A F.	Yes	ALR71489.1	KR815465.1	ALR71478.1	KR815465.1	ALR71530.1	KR815465.1	ALR71385.1	KR815465.1
Anticarsia gemmatalis MNPV	-	AgMNPV-37	Brito A F.	Yes	ALR71645.1	KR815466.1	ALR71634.1	KR815466.1	ALR71687.1	KR815466.1	ALR71541.1	KR815466.1
Anticarsia gemmatalis MNPV	-	AgMNPV-38	Brito A F.	Yes	ALR71801.1	KR815467.1	ALR71790.1	KR815467.1	ALR71843.1	KR815467.1	ALR71697.1	KR815467.1
Anticarsia gemmatalis MNPV	-	AgMNPV-39	Brito A F.	Yes	ALR71958.1	KR815468.1	ALR71947.1	KR815468.1	ALR72000.1	KR815468.1	ALR71853.1	KR815468.1

Bombyx mori NPV	Guangxi	-	Xu Y P.	Yes	AFN21292.1	JQ991011.1	AFN21304.1	JQ991011.1	AFN21266.1	JQ991011.1	AFN21253.1	JQ991011.1
Bombyx mori NPV	India	-	Fan H W.	Yes	AFN21153.1	JQ991010.1	AFN21165.1	JQ991010.1	AFN21127.1	JQ991010.1	AFN21115.1	JQ991010.1
Bombyx mori NPV	K1	-	Kang S K.	No	-	-	-	-	-	-	AAB18336.1	U73539.1
Bombyx mori NPV	Thailand	-	Zhou J B.	No	-	-	-	-	-	-	AFB74707.1	JN862922.1
Bombyx mori NPV	YN1	-	Tang F F.	No	-	-	-	-	-	-	AKN59252.1	KR139829.1
Bombyx mori NPV	Zhejiang	-	Xu Y P.	Yes	AFN21013.1	JQ991008.1	AFN21025.1	JQ991008.1	AFN20987.1	JQ991008.1	AFN20974.1	JQ991008.1
Bombyx mori NPV	-	C1	Kim M.	Yes	AGX01137.1	KF306215.1	AGX01148.1	KF306215.1	AGX01112.1	KF306215.1	AGX01112.1	KF306215.1
Bombyx mori NPV	-	C2	Choi J H.	Yes	AGX01266.1	KF306216.1	AGX01277.1	KF306216.1	AGX01241.1	KF306216.1	AGX01229.1	KF306216.1
Bombyx mori NPV	-	C6	Kim M.	Yes	AGX01392.1	KF306217.1	AGX01404.1	KF306217.1	AGX01368.1	KF306217.1	AGX01356.1	KF306217.1
Bombyx mori NPV	-	D1	Hashimoto Y.	No	BAA24133.1	AB009987.1	-	-	-	-	-	-
Bombyx mori NPV	-	GXBB	Liang X.	No	-	-	-	-	-	-	AFJ06774.1	JQ291662.1
Bombyx mori NPV	-	GXBY	Liang X.	No	-	-	-	-	-	-	AFJ06775.1	JQ291663.1
Bombyx mori NPV	-	GXCW	Liang X.	No	-	-	-	-	-	-	AFJ06776.1	JQ291664.1
Bombyx mori NPV	-	GXDA	Liang X.	No	-	-	-	-	-	-	AFJ06777.1	JQ291665.1
Bombyx mori NPV	-	GXFM	Liang X.	No	-	-	-	-	-	-	AFJ06778.1	JQ291666.1
Bombyx mori NPV	-	GXGB	Liang X.	No	-	-	-	-	-	-	AFJ06779.1	JQ291667.1
Bombyx mori NPV	-	GXGN	Liang X.	No	-	-	-	-	-	-	AFJ06780.1	JQ291668.1
Bombyx mori NPV	-	GXHJ	Liang X.	No	-	-	-	-	-	-	AFJ06781.1	JQ291669.1
Bombyx mori NPV	-	GXHP	Liang X.	No	-	-	-	-	-	-	AFJ06782.1	JQ291670.1
Bombyx mori NPV	-	GXHS	Liang X.	No	-	-	-	-	-	-	AFJ06783.1	JQ291671.1
Bombyx mori NPV	-	GHHX	Liang X.	No	-	-	-	-	-	-	AFJ06784.1	JQ291672.1
Bombyx mori NPV	-	GXLJ	Liang X.	No	-	-	-	-	-	-	AFJ06788.1	JQ291676.1
Bombyx mori NPV	-	GXLS	Liang X.	No	-	-	-	-	-	-	AFJ06789.1	JQ291677.1
Bombyx mori NPV	-	GXLeY	Liang X.	No	-	-	-	-	-	-	AFJ06785.1	JQ291673.1
Bombyx mori NPV	-	GXLingY	Liang X.	No	-	-	-	-	-	-	AFJ06786.1	JQ291674.1
Bombyx mori NPV	-	GXLiuC	Liang X.	No	-	-	-	-	-	-	AFJ06787.1	JQ291675.1
Bombyx mori NPV	-	GXLuoC1	Liang X.	No	-	-	-	-	-	-	AFJ06790.1	JQ291678.1
Bombyx mori NPV	-	GXLuoC2	Liang X.	No	-	-	-	-	-	-	AFJ06791.1	JQ291679.1
Bombyx mori NPV	-	GXMS1	Liang X.	No	-	-	-	-	-	-	AFJ06792.1	JQ291680.1
Bombyx mori NPV	-	GXMS2	Liang X.	No	-	-	-	-	-	-	AFJ06793.1	JQ291681.1
Bombyx mori NPV	-	GXNM	Liang X.	No	-	-	-	-	-	-	AFJ06794.1	JQ291682.1
Bombyx mori NPV	-	GXNN	Liang X.	No	-	-	-	-	-	-	AFJ06795.1	JQ291683.1
Bombyx mori NPV	-	GXNP	Liang X.	No	-	-	-	-	-	-	AFJ06796.1	JQ291684.1
Bombyx mori NPV	-	GXPB	Liang X.	No	-	-	-	-	-	-	AFJ06797.1	JQ291685.1
Bombyx mori NPV	-	GXPJ	Liang X.	No	-	-	-	-	-	-	AFJ06798.1	JQ291686.1
Bombyx mori NPV	-	GXPV	Liang X.	No	-	-	-	-	-	-	AFJ06799.1	JQ291687.1
Bombyx mori NPV	-	GXQT	Liang X.	No	-	-	-	-	-	-	AFJ06800.1	JQ291688.1
Bombyx mori NPV	-	GXRA	Liang X.	No	-	-	-	-	-	-	AFJ06801.1	JQ291689.1
Bombyx mori NPV	-	GXRS	Liang X.	No	-	-	-	-	-	-	AFJ06802.1	JQ291690.1
Bombyx mori NPV	-	GRRX	Liang X.	No	-	-	-	-	-	-	AFJ06803.1	JQ291691.1
Bombyx mori NPV	-	GXSL	Liang X.	No	-	-	-	-	-	-	AFJ06804.1	JQ291692.1
Bombyx mori NPV	-	GXTL	Liang X.	No	-	-	-	-	-	-	AFJ06805.1	JQ291693.1
Bombyx mori NPV	-	GXTX	Liang X.	No	-	-	-	-	-	-	AFJ06806.1	JQ291694.1
Bombyx mori NPV	-	GXWM	Liang X.	No	-	-	-	-	-	-	AFJ06807.1	JQ291695.1
Bombyx mori NPV	-	GXWX	Liang X.	No	-	-	-	-	-	-	AFJ06808.1	JQ291696.1
Bombyx mori NPV	-	GXXC	Liang X.	No	-	-	-	-	-	-	AFJ06809.1	JQ291697.1
Bombyx mori NPV	-	GXXD1	Liang X.	No	-	-	-	-	-	-	AFJ06810.1	JQ291698.1
Bombyx mori NPV	-	GXXD2	Liang X.	No	-	-	-	-	-	-	AFJ06811.1	JQ291699.1
Bombyx mori NPV	-	GXXZ	Liang X.	No	-	-	-	-	-	-	AFJ06812.1	JQ291700.1
Bombyx mori NPV	-	GXYF	Liang X.	No	-	-	-	-	-	-	AFJ06813.1	JQ291701.1
Bombyx mori NPV	-	GXYJ	Liang X.	No	-	-	-	-	-	-	AFJ06814.1	JQ291702.1
Bombyx mori NPV	-	GXYZ1	Liang X.	No	-	-	-	-	-	-	AFJ06815.1	JQ291703.1
Bombyx mori NPV	-	GXYZ2	Liang X.	No	-	-	-	-	-	-	AFJ06816.1	JQ291704.1
Bombyx mori NPV	-	GXZP	Liang X.	No	-	-	-	-	-	-	AFJ06817.1	JQ291705.1
Bombyx mori NPV	-	GXZS	Liang X.	No	-	-	-	-	-	-	AFJ06818.1	JQ291706.1
Bombyx mori NPV	-	H4	Bando H.	Yes	BBA20540.1	LC150780.1	BBA20552.1	LC150780.1	BBA20513.1	LC150780.1	BBA20500.1	LC150780.1
Bombyx mori NPV	-	M28-4	Lange M.	No	AAT10231.1	AY519217.1	AAT10232.1	AY519218.1	-	-	AAT10230.1	AY519216.1
Bombyx mori NPV	-	S12	Jehle J A.	No	ABB16301.1	DQ231340.1	ABB16302.1	DQ231341.1	-	-	ABB16300.1	DQ231339.1
Bombyx mori NPV	-	S9	Jehle J A.	No	ABB16298.1	DQ231337.1	ABB16299.1	DQ231338.1	-	-	ABB16297.1	DQ231336.1
Bombyx mori NPV	-	T3	Kamita S G.	Yes	AAC63723.1	L33180.1	AAC63735.1	L33180.1	AAC63696.1	L33180.1	AAC63683.1	L33180.1
Bombyx mori NPV	-	-	Chu R.	No	-	-	-	-	-	-	CAA45159.1	X63614.1
Bombyx mori NPV	-	-	Iatrou K.	No	-	-	-	-	-	-	AAA46734.1	M10043.1
Bombyx mori NPV	-	-	Kaewwises M.	No	-	-	-	-	-	-	AAV48593.1	AY779044.1
Bombyx mori NPV	-	-	Maeda S.	No	-	-	-	-	-	-	AAA46743.1	M30925.1
Busseola fusca NPV	-	A2-4	Lange M.	No	AAT10237.2	AY519223.2	AAT10238.1	AY519224.1	-	-	AAT10236.1	AY519222.1
Buzura suppressaria NPV	HB	-	Hu Z H.	No	-	-	-	-	-	-	CAA50194.1	X70844.1
Buzura suppressaria NPV	-	GX-BsNPV	Luo J.	No	AIW63034.1	KJ685549.1	-	-	-	-	-	-
Buzura suppressaria NPV	-	-	Luo J.	Yes	AKN91022.1	KM986882.1	AKN91005.1	KM986882.1	AKN91074.1	KM986882.1	AKN90971.1	KM986882.1
Buzura suppressaria NPV	-	Hubei	Hu Z H.	Yes	AHH82639.1	KF611977.1	AHH82624.1	KF611977.1	AHH82690.1	KF611977.1	AHH82590.1	KF611977.1
Buzura suppressaria NPV	-	S13	Jehle J A.	No	ABB16304.1	DQ231343.1	ABB16305.1	DQ231344.1	-	-	ABB16303.1	DQ231342.1
Buzura suppressaria NPV	-	Terai_K1	Ghosh B.	No	-	-	-	-	-	-	APD28417.2	KX665535.2
Buzura suppressaria NPV	-	-	Antony B.	No	-	-	-	-	-	-	AEK86284.1	JF510034.1
Caloptilia theivora GV	-	-	Kouassi L N.	No	BAJ24885.1	AB598365.1	BAJ24886.1	AB598366.1	-	-	BAJ24884.1	AB598364.1
Catopsilia pomona NPV	-	416	Wang J.	Yes	ANF29738.1	KU565883.1	ANF29727.1	KU565883.1	ANF29765.1	KU565883.1	ANF29650.1	KU565883.1
Catopsilia pomona NPV	-	S16	Jehle J A.	No	ABB16307.1	DQ231346.1	ABB16306.1	DQ231345.1	-	-	-	-
Cerapteryx graminis NPV	V1	-	Graham R I.	No	ADW96152.1	HQ603183.1	ADW96153.1	HQ603184.1	-	-	ADW96151.1	HQ603182.1
Choristoneura fumiferana DEF MNPV	-	-	Li X.	Yes	AAQ91640.1	AY327402.2	AAQ91651.1	AY327402.2	AAQ91663.1	AY327402.2	AAQ91696.1	AY327402.2
Choristoneura fumiferana GV	-	-	Bah A.	No	-	-	-	-	-	-	AAC69544.1	AF439352.1
Choristoneura fumiferana GV	-	-	Escasa S R.	Yes	ABC61241.1	DQ333351.1	ABC61230.1	DQ333351.1	ABC61169.1	DQ333351.1	ABC61135.1	DQ333351.1
Choristoneura fumiferana GV	-	-	Rashidan K K.	No	-	-	-	-	AAN77187.1	AF538602.1	-	-
Choristoneura fumiferana MNPV	Ireland	-	Poloumienko A.	No	AAR00577.1	U70991.1	-	-	-	-	-	-
Choristoneura fumiferana MNPV	T3-NPV	Tortrivirus	Rieth A.	No	-	-	-	-	-	-	AAA93292.1	U40833.1
Choristoneura fumiferana MNPV	-	-	Lee H Y.	Yes	AAP29832.1	AF512031.3	AAP29843.1	AF512031.3	AAD10307.1	AF512031.3	AAP29795.1	AF512031.3
Choristoneura murinana GV	-	A11-1_M50-3	Jehle J A.	No	AAW49037.1	AY706543.1	AAW49101.1	AY706608.1	-	-	AAW49153.1	AY706663.1
Choristoneura murinana NPV	Darmstadt	-	Rohrmann G F.	Yes	AHD25586.1	KF894742.1	AHD25577.1	KF894742.1	AHD25616.1	KF894742.1	AHD25488.1	KF894742.1
Choristoneura murinana NPV	-	26	Rohrmann G F.	No	AGO32798.1	KC798395.1	-	-	-	-	-	-
Choristoneura occidentalis GV	-	British_Columbia_2006	Graham R I.	No	-	-	-	-	-	-	ABW87637.1	EU201036.1
Choristoneura occidentalis NPV	-	BC_1	Thumbi D K.	Yes	AGR56989.1	KC961303.1	AGR56978.1	KC961303.1	AGR57019.1	KC961303.1	AGR56890.1	KC961303.1
Choristoneura occidentalis NPV	-	British_Columbia_2006	Graham R I.	No	-	-	-	-	-	-	ABW87638.1	EU201037.1
Choristoneura rosaceana NPV	-	NB_1	Thumbi D K.	Yes	AGR57136.1	KC961304.1	AGR57125.1	KC961304.1	AGR57169.1	KC961304.1	AGR57038.1	KC961304.1
Choristoneura rosaceana NPV	-	-	Lucarotti C J.	No	-	-	-	-	-	-	AAB51303.1	U91940.1
Choristoneura viridis GV	-	22	Rohrmann G F.	No	AGO32797.1	KC798394.1	-	-	-	-	-	-
Chrysodeixis chalcites NPV	TF1	1	Bernal A.	Yes	AGE61299.1	JX560539.1	AGE61314.1	JX560539.1	AGE61407.1	JX560539.1	AGE61263.1	JX560539.1

Chrysodeixis chalcites NPV	TF1	2	Bernal A.	Yes	AGE61597.1	JX560541.1	AGE61463.1	JX560540.1	AGE61552.1	JX560540.1	AGE61413.1	JX560540.1
Chrysodeixis chalcites NPV	TF1	3	Bernal A.	Yes	AGE61747.1	JX560542.1	AGE61612.1	JX560541.1	AGE61708.1	JX560541.1	AGE61561.1	JX560541.1
Chrysodeixis chalcites NPV	TF1	4	Bernal A.	Yes	-	-	AGE61761.1	JX560542.1	AGE61857.1	JX560542.1	AGE61712.1	JX560542.1
Chrysodeixis chalcites NPV	TF1	-	Bernal A.	No	AGE61448.1	JX560540.1	-	-	-	-	-	-
Chrysodeixis chalcites NPV	-	-	Xu F.	No	-	-	-	-	-	-	ACD001438.1	EU401915.1
Chrysodeixis chalcites NPV	-	-	van Oers M M.	Yes	AA Y83968.1	AY864330.1	AA Y83983.1	AY864330.1	AA Y84079.1	AY864330.1	AA Y83932.1	AY864330.1
Chrysodeixis chalcites NPV TF1-A	-	-	Bernal A.	Yes	AGC36252.1	JX535500.1	AGC36267.1	JX535500.1	AGC36361.1	JX535500.1	AGC36217.1	JX535500.1
Chrysodeixis includens NPV	-	1	Craveiro S R.	No	-	-	AGN49347.1	-	AGN49340.1	KC136320.1	-	-
Chrysodeixis includens NPV	-	2	Craveiro S R.	No	-	-	AOL57197.1	KU669294.1	AOL57283.1	KU669294.1	-	-
Chrysodeixis includens NPV	-	GO	Morgado F S.	No	APX52964.1	KX255634.1	APX52965.1	KX255635.1	-	-	-	-
Chrysodeixis includens NPV	-	IA	Craveiro S R.	Yes	AOL56473.1	KU669289.1	AFN80531.1	JQ260772.1	AFN80545.1	JQ260786.1	AOL56437.1	KU669289.1
Chrysodeixis includens NPV	-	IB	Craveiro S R.	Yes	AOL56615.1	KU669290.1	AFN80532.1	JQ260773.1	AFN80546.1	JQ260787.1	AOL56579.1	KU669290.1
Chrysodeixis includens NPV	-	IC	Craveiro S R.	Yes	AOL56756.1	KU669291.1	AFN80533.1	JQ260774.1	AFN80547.1	JQ260788.1	AOL56720.1	KU669291.1
Chrysodeixis includens NPV	-	ID	Craveiro S R.	Yes	AOL56898.1	KU669292.1	AFN80534.1	JQ260775.1	AFN80548.1	JQ260789.1	AOL56862.1	KU669292.1
Chrysodeixis includens NPV	-	IE	Craveiro S R.	No	AFN80528.1	JQ260769.1	AFN80535.1	JQ260776.1	AGN49338.1	KC136318.1	AFN80556.1	JQ260797.1
Chrysodeixis includens NPV	-	IF	Craveiro S R.	Yes	AOL57040.1	KU669293.1	AFN80536.1	JQ260777.1	AFN80550.1	JQ260791.1	AOL57004.1	KU669293.1
Chrysodeixis includens NPV	-	IG	Craveiro S R.	Yes	AOL57181.1	KU669294.1	AFN80537.1	JQ260778.1	AFN80551.1	JQ260792.1	AOL57145.1	KU669294.1
Clanis bilineata NPV	-	DZ1	Zhu S Y.	Yes	AAW81055.2	DQ504428.1	ABF47390.1	DQ504428.1	ABF47448.1	DQ504428.1	AA Y59556.1	DQ504428.1
Clostera anachoreta GV	-	ClanGV-HBHN	Liang Z.	Yes	AEB00399.1	HQ116624.1	AEB00389.1	HQ116624.1	AEB00311.1	HQ116624.1	AEB00289.1	HQ116624.1
Clostera anachoreta GV	-	S49	Jehle J A.	No	AAW49038.1	AY706544.1	AAW49102.1	AY706609.1	-	-	AAW49154.1	AY706664.1
Clostera anachoreta GV	-	-	Zhang X X.	No	AAT77804.1	AY664543.1	-	-	-	-	AA X68402.1	AY880963.1
Clostera anastomosis GV B	ClasGV-B	-	Yin F.	Yes	AKS25458.1	KR091910.1	AKS25446.1	KR091910.1	AKS25380.1	KR091910.1	AKS25344.1	KR091910.1
Clostera anastomosis GV Henan	-	CaLGV-Henan	Liang Z.	Yes	AGQ20370.1	KC179784.1	AGQ20360.1	KC179784.1	AGQ20283.1	KC179784.1	AGQ20260.1	KC179784.1
Cnaphalocrocis medinalis GV	Enping	-	Zhang S.	Yes	AMF83861.1	KU593505.1	AMF83852.1	KU593505.1	AMF83800.1	KU593505.1	AMF83753.1	KU593505.1
Cnaphalocrocis medinalis GV	-	-	Han G.	Yes	ALN42055.1	KP658210.1	ALN42044.1	KP658210.1	ALN41987.1	KP658210.1	ALN41934.1	KP658210.1
Cnephasia longana GV	-	A2-2	Lange M.	No	AAT10240.1	AY519226.1	AAT10241.1	AY519227.1	-	-	AAT10239.1	AY519225.1
Coloradia pandora NPV	-	19	Rohrmann G F.	No	AGO32796.1	KC798393.1	-	-	-	-	-	-
Coloradia pandora NPV	-	M30-2	Lange M.	No	AAT10243.1	AY519229.1	AAT10244.1	AY519230.1	-	-	AAT10242.1	AY519228.1
Condylorrhiza vestigialis MNPV	-	-	Castro M E.	Yes	AJD09260.1	KJ631623.1	AJD09249.1	KJ631623.1	AJD09294.1	KJ631623.1	AJD09166.1	KJ631623.1
Cryptophlebia leucotreta GV	-	CV3	Jehle J A.	Yes	AAQ21714.1	AY229987.1	AAQ21702.1	AY229987.1	AAQ21640.1	AY229987.1	AAQ21599.1	AY229987.1
Cryptophlebia leucotreta GV	-	CrleGV-SA	Singh S.	No	-	-	-	-	-	-	AAP50500.1	AY293731.1
Cryptophlebia leucotreta GV	-	CrleGV-SA	van der Merwe M.	Yes	AUF81963.1	MF974563.1	AUF81972.1	MF974563.1	AUF81988.1	MF974563.1	AUF82012.1	MF974563.1
Culex nigripalpus NPV	-	Florida1997	Afonso C L.	Yes	AAK94104.1	AF403738.1	AAK94137.1	AF403738.1	AAK94116.1	AF403738.1	-	-
Cyclophragma undans NPV	-	Whioiv	Zhu Z.	Yes	AOT85560.1	KT957089.1	AOT85548.1	KT957089.1	AOT85587.1	KT957089.1	AOT85459.1	KT957089.1
Cydia pomonella GV	CJ01	-	Shen J.	No	-	-	-	-	-	-	AFD21868.1	JQ003556.1
Cydia pomonella GV	Mexican_1	-	Crook N E.	Yes	AAK70791.1	U53466.2	AAK70777.1	U53466.2	AAK70708.1	U53466.2	AAK70668.1	U53466.2
Cydia pomonella GV	-	217	Arneodo J D.	No	AHJ59364.1	KF584307.1	-	-	-	-	AHJ59352.1	KF584295.1
Cydia pomonella GV	-	38	Arneodo J D.	No	AHJ59363.1	KF584306.1	-	-	-	-	AHJ59351.1	KF584294.1
Cydia pomonella GV	-	616	Arneodo J D.	No	AHJ59362.1	KF584305.1	-	-	-	-	AHJ59350.1	KF584293.1
Cydia pomonella GV	-	69	Arneodo J D.	No	AHJ59361.1	KF584304.1	-	-	-	-	AHJ59349.1	KF584292.1
Cydia pomonella GV	-	A11-2	Jehle J A.	No	AAW49055.1	AY706561.1	AAW49119.1	AY706626.1	-	-	AAW49160.1	AY706670.1
Cydia pomonella GV	-	A6-4	Jehle J A.	No	AAW49050.1	AY706556.1	AAW49114.1	AY706621.1	-	-	AAW49157.1	AY706667.1
Cydia pomonella GV	-	ALE1	Fan J B.	No	-	-	-	-	-	-	AHV90395.1	KJ184164.1
Cydia pomonella GV	-	ALE2	Fan J B.	No	-	-	-	-	-	-	AHV90396.1	KJ184165.1
Cydia pomonella GV	-	C1	Arneodo J D.	No	AHJ59359.1	KF584302.1	-	-	-	-	AHJ59347.1	KF584290.1
Cydia pomonella GV	-	C6	Arneodo J D.	No	AHJ59360.1	KF584303.1	-	-	-	-	AHJ59348.1	KF584291.1
Cydia pomonella GV	-	Col19	Arneodo J D.	No	AHJ59367.1	KF584310.1	-	-	-	-	AHJ59355.1	KF584298.1
Cydia pomonella GV	-	CpGV-E2	Gebhardt M M.	Yes	AIU37337.1	KM217577.1	AIU37324.1	KM217577.1	AIU37256.1	KM217577.1	AIU37211.1	KM217577.1
Cydia pomonella GV	-	CpGV-107	Gebhardt M M.	Yes	AIU36914.1	KM217574.1	AIU36900.1	KM217574.1	AIU36836.1	KM217574.1	AIU36790.1	KM217574.1
Cydia pomonella GV	-	CpGV-112	Gebhardt M M.	Yes	AIU37198.1	KM217576.1	AIU37185.1	KM217576.1	AIU37115.1	KM217576.1	AIU37069.1	KM217576.1
Cydia pomonella GV	-	CpGV-M	Gebhardt M M.	Yes	AIU37056.1	KM217575.1	AIU37043.1	KM217575.1	AIU36973.1	KM217575.1	AIU36927.1	KM217575.1
Cydia pomonella GV	-	CpGV-S	Gebhardt M M.	Yes	AIU36777.1	KM217573.1	AIU36764.1	KM217573.1	AIU36694.1	KM217573.1	AIU36650.1	KM217573.1
Cydia pomonella GV	-	E2	Eberle K E.	No	ACB87527.1	EU428825.1	-	-	-	-	ACB87526.1	EU428824.1
Cydia pomonella GV	-	G01	Eberle K E.	No	ACA81559.1	EU370241.1	-	-	-	-	ACA81544.1	EU370250.1
Cydia pomonella GV	-	G01	Sayed S.	No	-	-	ACA81551.1	EU370259.1	-	-	-	-
Cydia pomonella GV	-	G02	Eberle K E.	No	ACA81560.1	EU370242.1	-	-	-	-	ACA81543.1	EU370249.1
Cydia pomonella GV	-	G02	Sayed S.	No	-	-	ACA81552.1	EU370260.1	-	-	-	-
Cydia pomonella GV	-	I01	Eberle K E.	No	ACA81553.1	EU370235.1	-	-	-	-	ACA81537.1	EU370243.1
Cydia pomonella GV	-	I01	Sayed S.	No	-	-	ACA81545.1	EU370253.1	-	-	-	-
Cydia pomonella GV	-	I07	Eberle K E.	No	ACA81555.1	EU370237.1	-	-	-	-	ACA81539.1	EU370245.1
Cydia pomonella GV	-	I07	Sayed S.	No	-	-	ACA81547.1	EU370255.1	-	-	-	-
Cydia pomonella GV	-	I08	Eberle K E.	No	ACA81554.1	EU370236.1	-	-	-	-	ACA81538.1	EU370244.1
Cydia pomonella GV	-	I08	Sayed S.	No	-	-	ACA81546.1	EU370254.1	-	-	-	-
Cydia pomonella GV	-	I12	Eberle K E.	No	ACA81556.1	EU370238.1	-	-	-	-	ACA81540.1	EU370246.1
Cydia pomonella GV	-	I12	Sayed S.	No	-	-	ACA81548.1	EU370256.1	-	-	-	-
Cydia pomonella GV	-	I66	Eberle K E.	No	ACA81557.1	EU370239.1	-	-	-	-	ACA81542.1	EU370248.1
Cydia pomonella GV	-	I66	Sayed S.	No	-	-	ACA81549.1	EU370257.1	-	-	-	-
Cydia pomonella GV	-	I68	Eberle K E.	No	ACA81558.1	EU370240.1	-	-	-	-	ACA81541.1	EU370247.1
Cydia pomonella GV	-	I68	Sayed S.	No	-	-	ACA81550.1	EU370258.1	-	-	-	-
Cydia pomonella GV	-	KS1	Fan J B.	No	-	-	-	-	-	-	AHV90397.1	KJ184166.1
Cydia pomonella GV	-	M10	Arneodo J D.	No	AHJ59357.1	KF584300.1	-	-	-	-	AHJ59345.1	KF584288.1
Cydia pomonella GV	-	M18	Arneodo J D.	No	AHJ59356.1	KF584299.1	-	-	-	-	AHJ59344.1	KF584287.1
Cydia pomonella GV	-	M3	Arneodo J D.	No	AHJ59358.1	KF584301.1	-	-	-	-	AHJ59346.1	KF584289.1
Cydia pomonella GV	-	M39-1	Jehle J A.	No	AAW49051.1	AY706557.1	AAW49115.1	AY706622.1	-	-	AAW49158.1	AY706668.1
Cydia pomonella GV	-	P118	Arneodo J D.	No	AHJ59365.1	KF584308.1	-	-	-	-	AHJ59353.1	KF584296.1
Cydia pomonella GV	-	P7	Arneodo J D.	No	AHJ59366.1	KF584309.1	-	-	-	-	AHJ59354.1	KF584297.1
Cydia pomonella GV	-	WW1	Fan J B.	No	-	-	-	-	-	-	AHV90394.1	KJ184163.1
Cydia pomonella GV	-	ZY1	Fan J B.	No	-	-	-	-	-	-	AHV90393.1	KJ184162.1
Cynosarga chrysolopa NPV	302	-	Herniou E A/Thézé J.	No	AA_EH_302_LEF8	NT_EH_302_LEF8	AA_JT_302_LEF9	NT_JT_302_LEF9	-	-	AA_EH_302_POLH	NT_EH_302_POLH
Darna trima GV	545	-	Herniou E A/Thézé J.	No	AA_EH_545_LEF8	NT_EH_545_LEF8	AA_JT_545_LEF9	NT_JT_545_LEF9	AA_JT_545_PIF2	NT_JT_545_PIF2	AA_EH_545_POLH	NT_EH_545_POLH
Dasychira plagiatia NPV	-	M36-8	Jehle J A.	No	AAW49039.1	AY706545.1	AAW49103.1	AY706610.1	-	-	AAW49180.1	AY706690.1
Dasychira pudibunda NPV	-	ML1	Krejmer M.	Yes	AKR14177.1	KP747440.1	AKR14176.1	KP747440.1	AKR14219.1	KP747440.1	AKR14081.1	KP747440.1
Dendrolimus kikuchii NPV	YN	-	Yang M M.	Yes	AFS51980.1	JX193905.1	AFS51969.1	JX193905.1	AFS52006.1	JX193905.1	AFS51881.1	JX193905.1
Diaphania pulverulentalis NPV	-	-	Priyadharshini P.	No	-	-	-	-	-	-	ACS83600.1	FJ901339.1
Diatraea saccharalis GV	Parana-2009	DisaGV-Parana-2009	Ardisson-Araujo D M.	Yes	AKN80823.1	KP296186.1	AKN80755.1	KP296186.1	AKN80720.1	KP296186.1	AKN80701.1	KP296186.1
Dione juno MNPV	tmk1	1	Rodriguez V A.	No	ADQ43784.1	HQ010111.1	ADQ43785.1	HQ010112.1	-	-	ADQ43786.1	HQ010113.1
Dione juno MNPV	tmk1	2	Rodriguez V A.	No	ADQ43787.1	HQ010114.1	ADQ43788.1	HQ010115.1	-	-	ADQ43789.1	HQ010116.1
Dirphia peruvianus NPV	-	A3-1	Jehle J A.	No	AAW49040.1	AY706546.1	AAW49104.1	AY706611.1	-	-	AAW49181.1	AY706691.1
Ectropis griseascens NPV	-	S22	Jehle J A.	No	AAW49041.1	AY706547.1	AAW49105.1	AY706612.1	-	-	AAW49182.1	AY706692.1
Ectropis obliqua NPV	A1	-	Ma X C.	Yes	AB135716.1	DQ837165.1	AB135729.1	DQ837165.1	AB135789.1	DQ837165.1	AAQ88174.1	DQ837165.1
Ectropis obliqua NPV	unioasis_1	-	Chen J.	Yes	AGS47893.1	KC960018.1	AGS47903.1	KC960018.1	AGS47950.1	KC960018.1	KC960018.1	KC960018.1
Cadra cautella NPV	c5	-	Herniou E A/Thézé J.	No	AA_EH_c5_LEF8	NT_EH_c5_LEF8	AA_JT_c5_LEF9	NT_JT_c5_LEF9	AA_JT_c5_PIF2	NT_JT_c5_PIF2	AA_EH_c5_POLH	NT_EH_c5_POLH
Epinothia aporema GV	-	-	Ferrelli M L.	Yes	AER41547.1	JN408834.1	AER41538.1	JN408834.1	AER41473.1	JN408834.1	AER41427.1	JN408834.1

Epinotia aporema GV	-	-	Parola A D.	No	-	-	-	-	-	-	-	AAO14643.1	AF473703.1
Epinotia granitalis NPV	-	A1	Takatsuka J.	No	BAF81897.1	AB300385.1	BAF81898.1	AB300386.1	-	-	-	BAF81896.1	AB300384.1
Epiphyas postvittana NPV	-	-	Hyink O.	Yes	AAK85609.1	AY043265.1	AAK85620.1	AY043265.1	AAK85582.1	AY043265.1	-	-	-
Erannis defoliaria NPV	174	-	Herniou E A/Thézé J.	No	AA_EH_174_LEF8	NT_EH_174_LEF8	AA_JT_174_LEF9	NT_JT_174_LEF9	-	-	-	AA_EH_174_POLH	NT_EH_174_POLH
Erinnyis ello GV	-	ErelGV-00	Brito A F.	Yes	ARX71851.1	KX859082.1	ARX71841.1	KX859082.1	ARX71771.1	KX859082.1	ARX71730.1	KX859082.1	KX859082.1
Erimnyis ello GV	-	ErelGV-94	Brito A F.	Yes	ARX71461.1	KX859079.1	ARX71451.1	KX859079.1	ARX71381.1	KX859079.1	ARX71340.1	KX859079.1	KX859079.1
Erinnyis ello GV	-	ErelGV-98	Brito A F.	Yes	ARX71591.1	KX859080.1	ARX71581.1	KX859080.1	ARX71511.1	KX859080.1	ARX71511.1	KX859080.1	KX859080.1
Erinnyis ello GV	-	ErelGV-99	Brito A F.	Yes	ARX71721.1	KX859081.1	ARX71711.1	KX859081.1	ARX71641.1	KX859081.1	ARX71600.1	KX859081.1	KX859081.1
Erinnyis ello GV	-	ErelGV-AC	Brito A F.	Yes	ARX71981.1	KX859083.1	ARX71971.1	KX859083.1	ARX71901.1	KX859083.1	ARX71860.1	KX859083.1	KX859083.1
Erinnyis ello GV	-	ErelGV-PA	Brito A F.	Yes	ARX72111.1	KX859084.1	ARX72101.1	KX859084.1	ARX72031.1	KX859084.1	ARX71990.1	KX859084.1	KX859084.1
Erinnyis ello GV	-	M34-4	Jehle J A.	No	AAW49042.1	AY706548.1	AAW49106.1	AY706613.1	-	-	AAW49155.1	AY706665.1	AY706665.1
Erinnyis ello GV	-	S86	Ardisson-Araujo D M.	Yes	AIS92120.1	KJ406702.1	AIS92110.1	KJ406702.1	AIS92042.1	KJ406702.1	-	-	-
Estigmene acrea GV	-	M30-3	Jehle J A.	No	-	-	ABB96978.1	DQ235251.1	-	-	ABB96977.1	DQ235250.1	DQ235250.1
Euplexia luciparra GV	248	-	Herniou E A/Thézé J.	No	AA_EH_248_LEF8	NT_EH_248_LEF8	AA_JT_248_LEF9	NT_JT_248_LEF9	-	-	AA_EH_248_POLH	NT_EH_248_POLH	NT_EH_248_POLH
Euproctis chrysorrhoea NPV	a10	-	Herniou E A/Thézé J.	No	AA_EH_a10_LEF8	NT_EH_a10_LEF8	AA_JT_a10_LEF9	NT_JT_a10_LEF9	AA_JT_a10_PIF2	NT_JT_a10_PIF2	AA_EH_a10_POLH	NT_EH_a10_POLH	NT_EH_a10_POLH
Euproctis digramma NPV	-	S24	Jehle J A.	No	AAW49043.1	AY706549.1	AAW49107.1	AY706614.1	-	-	AAW49183.1	AY706693.1	AY706693.1
Euproctis pseudoconspersa NPV	Hangzhou	-	Tang X D.	Yes	ACOS3471.1	FJ227128.1	ACO53479.1	FJ227128.1	ACO53571.1	FJ227128.1	ACO53451.1	FJ2271328.1	FJ2271328.1
Euproctis pseudoconspersa NPV	-	A13-1	Jehle J A.	No	AAW49045.1	AY706551.1	-	-	-	-	AAW49184.1	AY706694.1	AY706694.1
Euproctis pseudoconspersa NPV	-	A4-5	Jehle J A.	No	-	-	AAW49109.1	AY706616.1	-	-	-	-	-
Euproctis similis NPV	768	-	Herniou E A/Thézé J.	No	AA_EH_768_LEF8	NT_EH_768_LEF8	AA_JT_768_LEF9	NT_JT_768_LEF9	AA_EH_768_PIF2	NT_EH_768_PIF2	AA_EH_768_POLH	NT_EH_768_POLH	NT_EH_768_POLH
Euxoa ochrogaster GV	-	A24-1	Jehle J A.	No	AAW49044.1	AY706550.1	AAW49108.1	AY706615.1	-	-	AY706615.1	AY706666.1	AY706666.1
Galleria mellonella MNPV	-	1138	Rowley D L.	No	AEY76258.1	JN674666.1	AEY76395.1	JN674667.1	-	-	AEY76341.1	JN674668.1	JN674668.1
Galleria mellonella MNPV	-	A11-3	Jehle J A.	No	AAW49047.1	AY706553.1	AAW49111.1	AY706618.1	-	-	AAW49186.1	AY706696.1	AY706696.1
Galleria mellonella MNPV	-	A16-3	Jehle J A.	No	AAW49048.1	AY706554.1	AAW49112.1	AY706619.1	-	-	AAW49187.1	AY706697.1	AY706697.1
Galleria mellonella MNPV	-	A3-6	Jehle J A.	No	AAW49049.1	AY706555.1	AAW49113.1	AY706620.1	-	-	AAW49188.1	AY706698.1	AY706698.1
Harrisina brillians GV	m2	-	Herniou E A/Thézé J.	No	AAS18601.1	AY449801.1	AA_JT_m2_LEF9	NT_JT_m2_LEF9	AAS13398.1	AY449780.1	AA_EH_m2_POLH	NT_EH_m2_POLH	NT_EH_m2_POLH
Heliconius erato NPV	789	-	Herniou E A/Thézé J.	No	AAS18592.1	AY449792.1	AA_JT_789_LEF9	NT_JT_789_LEF9	AAS13389.1	AY449771.1	AA_EH_789_POLH	NT_EH_789_POLH	NT_EH_789_POLH
Helicoverpa NPV AC53	AC53	-	Noune C.	Yes	AIG63080.1	KJ909666.1	AIG63097.1	KJ909666.1	AIG63176.1	KJ909666.1	AIG63043.1	KJ909666.1	KJ909666.1
Helicoverpa NPV AC53	AC53C1	-	Noune C.	Yes	AMN15213.1	KU738896.1	AMN15224.1	KU738896.1	AMN15236.1	KU738896.1	AMN15274.1	KU738896.1	KU738896.1
Helicoverpa NPV AC53	AC53C3	-	Noune C.	Yes	AMN15351.1	KU738897.1	AMN15362.1	KU738897.1	AMN15374.1	KU738897.1	AMN15374.1	KU738897.1	KU738897.1
Helicoverpa NPV AC53	AC53C5	-	Noune C.	Yes	AMN15489.1	KU738898.1	AMN15500.1	KU738898.1	AMN15512.1	KU738898.1	AMN15550.1	KU738898.1	KU738898.1
Helicoverpa NPV AC53	AC53C6	-	Noune C.	Yes	AMN15627.1	KU738899.1	AMN15638.1	KU738899.1	AMN15650.1	KU738899.1	AMN15688.1	KU738899.1	KU738899.1
Helicoverpa NPV AC53	AC53C9	-	Noune C.	Yes	AMN15765.1	KU738900.1	AMN15776.1	KU738900.1	AMN15788.1	KU738900.1	AMN15826.1	KU738900.1	KU738900.1
Helicoverpa NPV AC53	AC53T2	-	Noune C.	Yes	AMN15903.1	KU738901.1	AMN15914.1	KU738901.1	AMN15926.1	KU738901.1	AMN15964.1	KU738901.1	KU738901.1
Helicoverpa NPV AC53	AC53T41	-	Noune C.	Yes	AMN16041.1	KU738902.1	AMN16052.1	KU738902.1	AMN16064.1	KU738902.1	AMN16102.1	KU738902.1	KU738902.1
Helicoverpa NPV AC53	AC53T42	-	Noune C.	Yes	AMN16179.1	KU738903.1	AMN16190.1	KU738903.1	AMN16202.1	KU738903.1	AMN16240.1	KU738903.1	KU738903.1
Helicoverpa NPV AC53	AC53T5	-	Noune C.	Yes	AMN16317.1	KU738904.1	AMN16328.1	KU738904.1	AMN16340.1	KU738904.1	AMN16378.1	KU738904.1	KU738904.1
Helicoverpa armigera GV	-	-	Harrison R L.	Yes	ABY47840.1	EU255577.1	ABY47831.1	EU255577.1	ABY47733.1	EU255577.1	ABY47692.1	EU255577.1	EU255577.1
Helicoverpa armigera MNPV	-	1072	Rowley D L.	No	ADY88188.1	HQ246044.1	ADY88180.1	HQ246036.1	-	-	ADY88172.1	HQ246028.1	HQ246028.1
Helicoverpa armigera MNPV	-	120	Rowley D L.	No	ADY88184.1	HQ246040.1	ADY88176.1	HQ246032.1	-	-	ADY88168.1	HQ246024.1	HQ246024.1
Helicoverpa armigera MNPV	-	131	Rowley D L.	No	ADY88185.1	HQ246041.1	ADY88177.1	HQ246033.1	-	-	ADY88169.1	HQ246025.1	HQ246025.1
Helicoverpa armigera MNPV	-	3110	Rowley D L.	No	ADY88189.1	HQ246045.1	ADY88181.1	HQ246037.1	-	-	ADY88173.1	HQ246029.1	HQ246029.1
Helicoverpa armigera MNPV	-	3153	Rowley D L.	No	ADY88190.1	HQ246046.1	ADY88182.1	HQ246038.1	-	-	ADY88174.1	HQ246030.1	HQ246030.1
Helicoverpa armigera MNPV	-	3154	Rowley D L.	No	ADY88191.1	HQ246047.1	ADY88183.1	HQ246039.1	-	-	ADY88175.1	HQ246031.1	HQ246031.1
Helicoverpa armigera MNPV	-	443	Rowley D L.	No	ADY88186.1	HQ246042.1	ADY88178.1	HQ246034.1	-	-	ADY88170.1	HQ246026.1	HQ246026.1
Helicoverpa armigera MNPV	-	449	Rowley D L.	No	ADY88187.1	HQ246043.1	ADY88179.1	HQ246035.1	-	-	ADY88171.1	HQ246027.1	HQ246027.1
Helicoverpa armigera MNPV	-	-	Tang P.	Yes	ACH88655.1	EU730893.1	ACH88638.1	EU730893.1	ACH88564.1	EU730893.1	ACH88523.1	EU730893.1	EU730893.1
Helicoverpa armigera NPV	A6	-	Le T H.	No	-	-	-	-	-	-	AAB39611.1	U67258.1	U67258.1
Helicoverpa armigera NPV	AE20	-	Le T H.	No	-	-	-	-	-	-	AAB39610.1	U67257.1	U67257.1
Helicoverpa armigera NPV	Bangalore	HA_01	Jose J.	No	AEY77857.1	JN591550.1	-	-	-	-	-	-	-
Helicoverpa armigera NPV	Bathinda	-	Gupta V K.	No	ACI05099.1	FJ157288.1	-	-	-	-	ACI05103.1	FJ157292.1	FJ157292.1
Helicoverpa armigera NPV	E17	-	Le T H.	No	-	-	-	-	-	-	AAB39609.1	U67256.1	U67256.1
Helicoverpa armigera NPV	F29	-	Le T H.	No	-	-	-	-	-	-	AAB39608.1	U67255.1	U67255.1
Helicoverpa armigera NPV	Faridkot	-	Rakshit O.	Yes	AIY24945.1	KM357512.1	AIY24948.1	KM357515.1	-	-	AIY24932.1	KM357499.1	KM357499.1
Helicoverpa armigera NPV	HAU	-	Gupta V K.	No	ACI05101.1	FJ157290.1	-	-	-	-	ACI05106.1	FJ157295.1	FJ157295.1
Helicoverpa armigera NPV	Jodhan	-	Gupta V K.	No	ACI05100.1	FJ157289.1	-	-	-	-	ACI05105.1	FJ157294.1	FJ157294.1
Helicoverpa armigera NPV	L1	HANPVL1	Rakshit O.	Yes	ALD88486.1	KT013224.1	ALD88496.1	KT013224.1	ALD88567.1	KT013224.1	ALD88571.1	KT013224.1	KT013224.1
Helicoverpa armigera NPV	LB1	-	Arrizubieta M.	Yes	AJP07190.1	KJ701029.1	AJP07207.1	KJ701029.1	AJP07286.1	KJ701029.1	AJP07155.1	KJ701029.1	KJ701029.1
Helicoverpa armigera NPV	LB3	-	Arrizubieta M.	Yes	AJP07325.1	KJ701030.1	AJP07342.1	KJ701030.1	AJP07421.1	KJ701030.1	AJP07290.1	KJ701030.1	KJ701030.1
Helicoverpa armigera NPV	LB6	-	Arrizubieta M.	Yes	AJP07460.1	KJ701031.1	AJP07477.1	KJ701031.1	AJP07556.1	KJ701031.1	AJP07425.1	KJ701031.1	KJ701031.1
Helicoverpa armigera NPV	PAU	-	Gupta V K.	No	ACI05098.1	FJ157287.1	-	-	-	-	ACI05102.1	FJ157291.1	FJ157291.1
Helicoverpa armigera NPV	PDBC	-	Gupta V K.	No	ACI05097.1	FJ157286.1	-	-	-	-	ACI05104.1	FJ157293.1	FJ157293.1
Helicoverpa armigera NPV	SP1A	-	Arrizubieta M.	Yes	AJP07595.1	KJ701032.1	AJP07612.1	KJ701032.1	AJP07692.1	KJ701032.1	AJP07560.1	KJ701032.1	KJ701032.1
Helicoverpa armigera NPV	SP1B	-	Arrizubieta M.	Yes	AJP07731.1	KJ701033.1	AJP07748.1	KJ701033.1	AJP07828.1	KJ701033.1	AJP07696.1	KJ701033.1	KJ701033.1
Helicoverpa armigera NPV	-	1073	Rowley D L.	No	ADY88230.1	HQ246108.1	ADY88257.1	HQ246135.1	ADY88203.1	-	ADY88203.1	HQ246081.1	HQ246081.1
Helicoverpa armigera NPV	-	1113	Rowley D L.	No	ADY88231.1	HQ246109.1	ADY88258.1	HQ246136.1	-	-	ADY88204.1	HQ246082.1	HQ246082.1
Helicoverpa armigera NPV	-	1115	Rowley D L.	No	ADY88232.1	HQ246110.1	ADY88259.1	HQ246137.1	-	-	ADY88205.1	HQ246083.1	HQ246083.1
Helicoverpa armigera NPV	-	1186	Rowley D L.	No	ADY88234.1	HQ246112.1	ADY88261.1	HQ246139.1	-	-	ADY88207.1	HQ246085.1	HQ246085.1
Helicoverpa armigera NPV	-	1221	Rowley D L.	No	ADY88235.1	HQ246113.1	ADY88262.1	HQ246140.1	-	-	ADY88208.1	HQ246086.1	HQ246086.1
Helicoverpa armigera NPV	-	1240	Rowley D L.	No	ADY88236.1	HQ246114.1	ADY88263.1	HQ246141.1	-	-	ADY88209.1	HQ246087.1	HQ246087.1
Helicoverpa armigera NPV	-	126	Rowley D L.	No	ADY88221.1	HQ246099.1	ADY88248.1	HQ246126.1	-	-	ADY88194.1	HQ246072.1	HQ246072.1
Helicoverpa armigera NPV	-	138	Rowley D L.	No	ADY88222.1	HQ246100.1	ADY88249.1	HQ246127.1	-	-	ADY88195.1	HQ246073.1	HQ246073.1
Helicoverpa armigera NPV	-	141	Rowley D L.	No	ADY88223.1	HQ246101.1	ADY88250.1	HQ246128.1	-	-	ADY88196.1	HQ246074.1	HQ246074.1
Helicoverpa armigera NPV	-	1623	Rowley D L.	No	ADY88238.1	HQ246116.1	ADY88265.1	HQ246143.1	-	-	ADY88211.1	HQ246089.1	HQ246089.1
Helicoverpa armigera NPV	-	1625	Rowley D L.	No	ADY88239.1	HQ246117.1	ADY88266.1	HQ246144.1	-	-	ADY88212.1	HQ246090.1	HQ246090.1
Helicoverpa armigera NPV	-	1825	Rowley D L.	No	ADY88240.1	HQ246118.1	ADY88267.1	HQ246145.1	-	-	ADY88213.1	HQ246091.1	HQ246091.1
Helicoverpa armigera NPV	-	2066	Rowley D L.	No	ADY88241.1	HQ246119.1	ADY88268.1	HQ246146.1	-	-	ADY88214.1	HQ246092.1	HQ246092.1
Helicoverpa armigera NPV	-	2588	Rowley D L.	No	ADY88242.1	HQ246120.1	ADY88269.1	HQ246147.1	-	-	ADY88215.1	HQ246093.1	HQ246093.1
Helicoverpa armigera NPV	-	3010	Rowley D L.	No	ADY88243.1	HQ246121.1	ADY88270.1	HQ246148.1	-	-	ADY88216.1	HQ246094.1	HQ246094.1
Helicoverpa armigera NPV	-	3104	Rowley D L.	No	ADY88244.1	HQ246122.1	ADY88271.1	HQ246149.1	-	-	AD		

Helicoverpa armigera NPV	NNg1	-	Ogembo J.G.	Yes	BAG74603.1	AP010907.1	BAG74620.1	AP010907.1	BAG74705.1	AP010907.1	BAG74566.1	AP010907.1
Helicoverpa armigera NPV	Australia	-	Zhang H.	Yes	AEN03962.1	JN584482.1	AEN03979.1	JN584482.1	AEN04055.1	JN584482.1	AEN03926.1	JN584482.1
Helicoverpa assulta NPV	-	Korean	Woo S D.	No	-	-	-	-	-	-	AAZ83723.1	DQ157735.1
Helicoverpa gelatopoeon NPV	ar	-	Ferrelli M L.	No	ALC04231.1	KP340515.1	ALC04232.1	KP340516.1	-	-	ALC04233.1	KP340517.1
Helicoverpa zea NPV	Elkar	-	Le T H.	No	AAB54005.1	U67265.1	-	-	-	-	AAB54089.1	U67264.1
Helicoverpa zea NPV	Gemstar-35022	-	Rowley D L.	No	ADY88219.1	HQ246097.1	ADY88246.1	HQ246124.1	-	-	ADY88192.1	HQ246070.1
Helicoverpa zea NPV	HS-18	-	Ternovoi V A.	Yes	AHN05413.1	KJ004000.1	AHN05431.1	KJ004000.1	AHN05511.1	KJ004000.1	AHN05376.1	KJ004000.1
Helicoverpa zea NPV	-	1013	Rowley D L.	No	ADY88227.1	HQ246105.1	ADY88254.1	HQ246132.1	-	-	ADY88200.1	HQ246078.1
Helicoverpa zea NPV	-	1024	Rowley D L.	No	ADY88228.1	HQ246106.1	ADY88255.1	HQ246133.1	-	-	ADY88201.1	HQ246079.1
Helicoverpa zea NPV	-	1027	Rowley D L.	No	ADY88229.1	HQ246107.1	ADY88256.1	HQ246134.1	-	-	ADY88202.1	HQ246080.1
Helicoverpa zea NPV	-	1180	Rowley D L.	No	ADY88233.1	HQ246111.1	ADY88260.1	HQ246138.1	-	-	ADY88206.1	HQ246084.1
Helicoverpa zea NPV	-	1578	Rowley D L.	No	ADY88237.1	HQ246115.1	ADY88264.1	HQ246142.1	-	-	ADY88210.1	HQ246088.1
Helicoverpa zea NPV	-	3108	Rowley D L.	No	ADY88245.1	HQ246123.1	ADY88272.1	HQ246150.1	-	-	ADY88218.1	HQ246096.1
Helicoverpa zea NPV	-	543	Rowley D L.	No	ADY88224.1	HQ246102.1	ADY88251.1	HQ246129.1	-	-	ADY88197.1	HQ246075.1
Helicoverpa zea NPV	-	566	Rowley D L.	No	ADY88225.1	HQ246103.1	ADY88252.1	HQ246130.1	-	-	ADY88198.1	HQ246076.1
Helicoverpa zea NPV	-	668	Rowley D L.	No	ADY88226.1	HQ246104.1	ADY88253.1	HQ246131.1	-	-	ADY88199.1	HQ246077.1
Helicoverpa zea NPV	-	Br_South	Ardisson-Araujo D M P.	Yes	AKN50533.1	KM596835.1	AKN50473.1	KM596835.1	AKN50515.1	KM596835.1	AKN50442.1	KM596835.1
Helicoverpa zea NPV	-	-	Chen X.	Yes	AAL56183.1	AF334030.1	AAL56201.1	AF334030.1	AAL56142.1	AF334030.1	AF3340146.1	AF334030.1
Hemerocampa vetusta NPV	-	A24-5	Jehle J A.	No	AAW49052.1	AY706558.1	AAW49116.1	AY706623.1	-	-	AAW49189.1	AY706699.1
Hemileuca sp NPV	-	165	Rohrmann G F.	No	AGO32800.1	KC798397.1	-	-	-	-	-	-
Hemileuca sp NPV	-	-	Rohrmann G F.	Yes	AGR56789.1	KF158713.1	AGR56803.1	KF158713.1	AGR56861.1	KF158713.1	AGR56753.1	KF158713.1
Homona coffearia GV	745	-	Herniou E A/Thézé J.	No	AA_JT_745_LEF8	NT_JT_745_LEF8	AA_JT_745_LEF9	NT_JT_745_LEF9	AA_JT_745_PIF2	NT_JT_745_PIF2	AA_EH_745_POLH	NT_EH_745_POLH
Hoplodrina ambigua GV	-	M39-2	Lange M.	No	AAT10246.1	AY519232.1	AAT10247.1	AY519233.1	-	-	AAT10245.1	AY519231.1
Hyphantria cunea GV	-	A18-3_A5-1	Jehle J A.	No	AAW49053.1	AY706559.1	-	-	-	-	-	-
Hyphantria cunea GV	-	Hc1	Erbas Z.	No	APY18939.1	KX156845.1	APY18940.1	KX156846.1	-	-	APY18938.1	KX156844.1
Hyphantria cunea NPV	-	S27	Jehle J A.	No	AAW49054.1	AY706560.1	AAW49118.1	AY706625.1	-	-	AAW49190.1	AY706700.1
Hyphantria cunea NPV	-	Tokyo	Croizier L.	No	-	-	-	-	-	-	BAA03427.1	D14573.1
Hyphantria cunea NPV	-	-	Alves C A.	Yes	BAE72391.1	AP009046.1	BAE72378.1	AP009046.1	BAE72420.1	AP009046.1	BAE72290.1	AP009046.1
Hyphantria cunea NPV	-	-	Lee H H.	No	-	-	-	-	-	-	AAG10795.1	AF300872.1
Hyposidra infixaria NPV	-	-	Antony B.	No	-	-	-	-	-	-	AEK86286.1	JF510036.1
Hyposidra talaca NPV	-	HytaNPV	Dasgupta S.	No	-	-	-	-	-	-	AJN00735.1	KP027542.1
Hyposidra talaca NPV	-	Terai_K1	Ghosh B.	No	-	-	-	-	-	-	APD28416.1	KX665534.1
Hyposidra talaca NPV	-	-	Antony B.	No	-	-	-	-	-	-	AEK86285.1	JF510035.1
Idaea seriata NPV	402	-	Herniou E A/Thézé J.	No	AA_EH_402_LEF8	NT_EH_402_LEF8	AA_JT_402_LEF9	NT_JT_402_LEF9	-	-	AA_EH_402_POLH	NT_EH_402_POLH
Iragoides fasciata NPV	-	Hangzhou	Yang L R.	No	-	-	-	-	-	-	ACJ04627.1	FJ362523.1
Junonia coenia GV	19	-	Herniou E A/Thézé J.	No	AA_EH_19_LEF8	NT_EH_19_LEF8	AA_JT_19_LEF9	NT_JT_19_LEF9	-	-	AA_EH_19_POLH	NT_EH_19_POLH
Junonia coenia NPV	-	M30-5	Lange M.	No	AAT10249.1	AY519235.1	AAT10250.1	AY519236.1	-	-	AAT10248.1	AY519234.1
Kotochalia junodi NPV	32	-	Herniou E A/Thézé J.	No	AA_EH_32_LEF8	NT_EH_32_LEF8	AA_JT_32_LEF9	NT_JT_32_LEF9	AA_EH_32_PIF2	NT_EH_32_PIF2	AA_EH_32_POLH	NT_EH_32_POLH
Lacanobia oleracea GV	a6	-	Herniou E A/Thézé J.	No	AA_EH_a6_LEF8	NT_EH_a6_LEF8	AA_JT_a6_LEF9	NT_JT_a6_LEF9	AA_JT_a6_PIF2	NT_JT_a6_PIF2	AA_EH_a6_POLH	NT_EH_a6_POLH
Lambdina fiscellaria NPV	-	GR15	Rohrmann G F.	Yes	AKC91723.1	KP752043.1	AKC91709.1	KP752043.1	AKC91655.1	KP752043.1	AKC91626.1	KP752043.1
Lasiocampa quercus NPV	202	-	Herniou E A/Thézé J.	No	AA_EH_202_LEF8	NT_EH_202_LEF8	AA_JT_202_LEF9	NT_JT_202_LEF9	AA_JT_202_PIF2	NT_JT_202_PIF2	AA_EH_202_POLH	NT_EH_202_POLH
Leucania separata NPV	AH1	-	Du E Q.	Yes	AAR28807.1	AY394490.1	AAR28842.1	AY394490.1	AAR28927.1	AY394490.1	AY394490.1	-
Leucania separata NPV	-	1	Wang J.	No	-	-	-	-	-	-	AAA99736.1	U30302.1
Leucania separata NPV	-	2	Wang J.	No	-	-	-	-	-	-	AAB47865.1	S83128.1
Leucoma salicis NPV	-	-	Jakubowska A K.	No	AAW66664.1	AY729809.1	-	-	AAW82429.1	AY729810.1	AAW66663.1	AY729808.1
Lonomia obliqua MNPV	-	SP_2000	Clara A S W.	Yes	AKN80993.1	KP763670.1	AKN81053.1	KP763670.1	AKN81074.1	KP763670.1	AKN80945.1	KP763670.1
Lonomia obliqua MNPV	-	-	Wolff J L C.	No	-	-	-	-	-	-	AAF98122.2	AF232690.2
Lymantria dispar MNPV	3029	-	Harrison R L.	Yes	AIX47889.1	KM386655.1	AIX47904.2	KM386655.1	AIX47957.1	KM386655.1	AIX47837.1	KM386655.1
Lymantria dispar MNPV	3041	-	Harrison R L.	Yes	AMO27722.1	KT626571.1	AMO27736.1	KT626571.1	AMO27787.1	KT626571.1	AMO27675.1	KT626571.1
Lymantria dispar MNPV	3054	-	Harrison R L.	Yes	AMO27549.1	KT626570.1	AMO27563.1	KT626570.1	AMO27615.1	KT626570.1	AMO27502.1	KT626570.1
Lymantria dispar MNPV	A21-MPV	-	Bischoff D S.	No	-	-	AAC58525.1	AF019970.1	-	-	-	-
Lymantria dispar MNPV	Ab-a624	-	Harrison R L.	Yes	AMO27904.1	KT626572.1	AMO27919.1	KT626572.1	AMO27973.1	KT626572.1	AMO27853.1	KT626572.1
Lymantria dispar MNPV	Chistoozernyi	-	Bakhvalov S A.	No	-	-	-	-	-	-	AID57535.1	KJ685904.1
Lymantria dispar MNPV	Karasuk	-	Bakhvalov S A.	No	-	-	-	-	-	-	AID57536.1	KJ685905.1
Lymantria dispar MNPV	Massachusetts	-	Podgwaite J D.	No	-	-	-	-	-	-	AID57538.1	KJ685907.1
Lymantria dispar MNPV	New_Jersey	-	Podgwaite J D.	No	-	-	-	-	-	-	AID57539.1	KJ685908.1
Lymantria dispar MNPV	New_York	-	Podgwaite J D.	No	-	-	-	-	-	-	AID57540.1	KJ685909.1
Lymantria dispar MNPV	Tatarsk	-	Bakhvalov S A.	No	-	-	-	-	-	-	AID57537.1	KJ685906.1
Lymantria dispar MNPV	-	1010	Harrison R L.	No	AHC69680.1	KF695055.1	-	-	-	-	-	-
Lymantria dispar MNPV	-	2161	Harrison R L.	Yes	AHC69548.1	KF695050.2	AHC69562.1	KF695050.2	AHC69622.1	KF695050.2	AHC69502.1	KF695050.2
Lymantria dispar MNPV	-	3057	Harrison R L.	No	AHC69684.1	KF695059.1	-	-	-	-	AHC69676.1	KF695051.1
Lymantria dispar MNPV	-	3058	Harrison R L.	No	AHC69685.1	KF695060.1	-	-	-	-	-	-
Lymantria dispar MNPV	-	3063	Harrison R L.	No	AHC69686.1	KF695061.1	-	-	-	-	-	-
Lymantria dispar MNPV	-	3065	Harrison R L.	No	AHC69687.1	KF695062.1	-	-	-	-	AHC69677.1	KF695052.1
Lymantria dispar MNPV	-	3152	Harrison R L.	No	AHC69688.1	KF695063.1	AHC69691.1	KF695066.1	-	-	AHC69678.1	KF695053.1
Lymantria dispar MNPV	-	A24-6	Jehle J A.	No	ABB96973.1	DQ235246.1	ABB96976.1	DQ235249.1	-	-	-	-
Lymantria dispar MNPV	-	BNP	Rabalski L.	Yes	ANS70932.1	KU377538.1	ANS70947.1	KU377538.1	ANS71003.1	KU377538.1	ANS70890.1	KU377538.1
Lymantria dispar MNPV	-	HrB	Harrison R L.	No	AHC69689.1	KF695064.1	-	-	-	-	AHC69679.1	KF695054.1
Lymantria dispar MNPV	-	Kashmir	Gani M.	No	ARO92259.1	KY296840.1	ARO92260.1	KY296841.1	-	-	ARO92258.1	KY296839.1
Lymantria dispar MNPV	-	LdMNPV-27_0	Kabilov M R.	Yes	AQQ80072.1	KY249580.1	AQQ80086.1	KY249580.1	AQQ80134.1	KY249580.1	AQQ80029.1	KY249580.1
Lymantria dispar MNPV	-	LdMNPV-27_2	Kabilov M R.	Yes	AJR20325.1	KP027546.2	AJR20339.1	KP027546.2	AJR20392.1	KP027546.2	KP027546.2	KP027546.2
Lymantria dispar MNPV	-	LdMNPV-45_0	Martemyanov V V.	Yes	AMO65544.1	KU862282.1	AMO65556.1	KU862282.1	AMO65604.1	KU862282.1	AMO65496.1	KU862282.1
Lymantria dispar MNPV	-	Ld_Ninohe#1	Takatsuka J.	No	BAV21611.1	LC109268.1	BAV21614.1	LC109271.1	-	-	BAV21608.1	LC109265.1
Lymantria dispar MNPV	-	RR01	Krejmer-Rabalska M.	Yes	AOW42750.1	KX618634.1	AOW42768.1	KX618634.1	AOW42775.1	KX618634.1	AOW42823.1	KX618634.1
Lymantria dispar MNPV	-	T1	Gencer D.	No	AKQ12805.1	KP939239.1	AKQ12809.1	KP939240.1	-	-	AKQ12813.1	KP939241.1
Lymantria dispar MNPV	-	T2	Gencer D.	No	AKQ12806.1	KP939236.1	AKQ12810.1	KP939237.1	-	-	AKQ12814.1	KP939238.1
Lymantria dispar MNPV	-	T3	Gencer D.	No	AKQ12804.1	KP939242.1	AKQ12808.1	KP939243.1	-	-	AKQ12812.1	KP939244.1
Lymantria dispar MNPV	-	T4	Gencer D.	No	AKQ12807.1	KP939233.1	AKQ12811.1	KP939234.1	-	-	AKQ12815.1	KP939235.1
Lymantria dispar MNPV	-	-	An C.	No	-	-	-	-	-	-	AAM18962.1	AF499687.1
Lymantria dispar MNPV	-	-	Kuzio J.	Yes	AAC70236.1	AF081810.1	AAC70250.1	AF081810.1	AAC70305.1	AF081810.1	AF081816.1	AF081810.1
Lymantria mathura mutiple NPV	-	Lyma_Kunohe_A#1	Takatsuka J.	No	BAV21609.1	LC109266.1	BAV21612.1	LC109269.1	-	-	BAV21606.1	LC109263.1
Lymantria mathura mutiple NPV	-	Lyma_Kunohe_B#1	Takatsuka J.	No	BAV21610.1	LC109267.1	BAV21613.1	LC109270.1	-	-	BAV21607.1	LC109264.1
Lymantria monacha NPV	-	463	Harrison R L.	No	AHC69697.1	KF695070.1	AHC69695.1	KF695071.1	-	-	AHC695072.1	KF695072.1
Lymantria monacha NPV	-	A14-3	Jehle J A.	No	AAW49056.1	AY706562.1	AAW49120.1	AY706627.1	-	-	AAW49191.1	AY706701.1
Lymantria monacha NPV	-	A19-3	Jehle J A.	No	AAW49057.1	AY706563.1	AAW49121.1	AY706628.1	-	-	AAW49192.1	AY706702.1
Lymantria xyliina NPV	-	3061	Harrison R L.	No	AHC69696.1	KF695067.1	AHC69694.1	KF695068.1	-	-	AHC69692.1	KF695069.1
Lymantria xyliina NPV	-	LyxyMNPV-5	Nai Y S.	Yes	ADD73757.1	GQ202541.1	ADD73770.1	GQ202541.1	ADD73847.1	GQ202541.1	ADD73710.1	GQ202541.1
Lymantria xyliina NPV	-	S31	Jehle J A.	No	AAW49058.1	AY706564.1	AAW49122.1	AY706629.1	-	-	AAW49193.1	AY706703.1
Lymantria xyliina NPV	-	-	Nai Y S.	No	ACL31659.1	FJ182055.1	ACL31660.1	FJ182056.1	-	-	-	-
Lymantria xyliina NPV	-	-	Wu C Y.	No	-	-	-	-	-	-	-	-
Lymantria xyliina NPV	-	-	Nai Y S.	No	ACL31658.1	FJ182054.1	ACL31657.1	FJ182053.1	-	-	AAW28857.1	AY842284.1
Mahasena corbetti NPV	692	-	Herniou E A/Thézé J.	No	AA_EH_692_LEF8	NT_EH_692_LEF8	AA_JT_692_LEF9	NT_JT_692_LEF9	-	-	AA_EH_692_POLH	NT_EH_692_POLH
Malacosoma sp NPV	-	18	Rohrmann G F.	No	AGO32795.1	KC798392.1	-	-	-	-	-	-

Malacosoma americanum NPV	-	M39-4	Jehle J A.	No	AAW49059.1	AY706565.1	AAW49123.1	AY706630.1	-	-	AAW49194.1	AY706704.1
Malacosoma americanum NPV	-	-	Zeng F.	No	-	-	-	-	-	-	AAU81961.1	AY589504.1
Malacosoma californicum NPV	-	99	Cory J.	Yes	lef-8_MacoNPV_99	lef-8_MacoNPV_99	lef-9_MacoNPV_99	lef-9_MacoNPV_99	pif-2_MacoNPV_99	pif-2_MacoNPV_99	polyhedrin_MacoNPV_99	polyhedrin_MacoNPV_99
Malacosoma californicum NPV	-	M30-6	Lange M.	No	AAT10252.1	AY519238.1	AAT10253.1	AY519239.1	-	-	AAT10251.1	AY519231.1
Malacosoma distria NPV	MdMNPV-A92	-	Erlandson M A.	No	-	-	-	-	-	-	AAD00095.1	U61732.1
Malacosoma neustria NPV	-	A2-6	Lange M.	No	AAT10258.1	AY519244.1	AAT10259.1	AY519245.1	-	-	AAT10257.1	AY519243.1
Malacosoma neustria NPV	-	S32	Jehle J A.	No	AAW49063.1	AY706569.1	AAW49127.1	AY706634.1	-	-	AAW49198.1	AY706708.1
Malacosoma neustria NPV	-	-	Dmitrenko V V.	No	-	-	-	-	-	-	CAA39191.1	X55658.1
Malacosoma neustria NPV	-	-	Jankevica L.	No	-	-	-	-	-	-	CAB91643.1	AJ277555.1
Malacosoma neustria NPV	-	-	Lange M.	No	-	-	-	-	-	-	AAM97276.1	AY127899.1
Malacosoma sp NPV	164	-	Rohrmann G F.	Yes	ANW12301.1	KU659594.1	ANW12287.1	KU659594.1	ANW12330.1	KU696418.1	ANW12345.1	KU707951.1
Malacosoma sp NPV	-	M28-2	Lange M.	No	AAT10255.1	AY519241.1	AAT10256.1	AY519242.1	-	-	AAT10254.1	AY519240.1
Mamestra brassicae MNPV	CHb1	-	Liu L.	Yes	AFP95852.2	JX138237.2	AFP95835.1	JX138237.2	AFP95762.2	JX138237.2	AFP95720.1	JX138237.2
Mamestra brassicae MNPV	K1	-	Choi J B.	Yes	AFL64982.1	JQ798165.1	AFL64965.1	JQ798165.1	AFL64893.1	JQ798165.1	AFL64852.1	JQ798165.1
Mamestra brassicae MNPV	Oxford	-	Cameron I R.	No	-	-	-	-	-	-	AAA69768.1	M20927.1
Mamestra brassicae MNPV	Tokyo	-	Mukawa S.	No	-	-	-	-	-	-	BAE06244.1	AB198073.1
Mamestra brassicae MNPV	-	A10-1	Jehle J A.	No	AAW49060.1	AY706566.1	AAW49124.1	AY706631.1	-	-	AAW49195.1	AY706705.1
Mamestra brassicae MNPV	-	A3-5	Jehle J A.	No	AAW49061.1	AY706567.1	AAW49125.1	AY706632.1	-	-	AAW49196.1	AY706706.1
Mamestra brassicae MNPV	-	CTa	Hou D.	Yes	AIL25212.1	KJ871680.1	AIL25194.1	KJ871680.1	AIL25120.1	KJ871680.1	AIL25078.1	KJ871680.1
Mamestra brassicae MNPV	-	S33	Jehle J A.	No	AAW49062.1	AY706568.1	AAW49126.1	AY706633.1	-	-	AAW49197.1	AY706707.1
Mamestra configurata NPV A	90_2	-	Li S.	Yes	AAM09249.1	U59461.2	AAM09232.1	U59461.2	AAM09156.1	U59461.2	AAW51031.1	U59461.2
Mamestra configurata NPV A	-	90_4	Li L.	Yes	AAQ11160.1	AF539999.1	AAQ11143.1	AF539999.1	AAQ11067.1	AF539999.1	AAQ11021.1	AF539999.1
Mamestra configurata NPV B	-	-	Li L.	Yes	AAM95126.1	AY126275.1	AAM95109.1	AY126275.1	AAM95030.1	AY126275.1	AAM94988.1	AY126275.1
Maruca vitrata NPV	-	-	Chen Y R.	Yes	ABL75987.1	EF125867.1	ABL75998.1	EF125867.1	ABL75965.1	EF125867.1	ABL75863.1	EF125867.1
Maruca vitrata NPV	-	-	Lee S.	No	-	-	-	-	-	-	ABD62354.1	DQ399596.1
Melanchra persicariae GV	26	-	Herniou E A/Thézé J.	No	AA_EH_26_LEF8	NT_EH_26_LEF8	AA_JT_26_LEF9	NT_JT_26_LEF9	AA_JT_26_PIF2	NT_JT_26_PIF2	AA_EH_26_POLH	NT_EH_26_POLH
Mocis latipes GV	-	Southern_Brazil	Ardissou-Araujo D M P.	Yes	AKR17532.1	KR011718.1	AKR17462.1	KR011718.1	AKR17419.1	KR011718.1	AKR17398.1	KR011718.1
Mythimna separata NPV	Geihoku	-	Kouassi L N.	No	BAF74733.1	AB308407.1	BAF74734.1	AB308408.1	-	-	BAF74732.1	AB308406.1
Mythimna unipuncta GV	-	-	Keathley C P.	No	AEY76175.1	JN701916.1	AEY76170.1	JN701911.1	-	-	AEY76165.1	JN701906.1
Mythimna unipuncta GV	-	MyunGV#8	Harrison R L.	Yes	AQQ80399.1	KX855660.2	AQQ80390.1	KX855660.2	AQQ80310.1	KX855660.2	AQQ80271.1	KX855660.2
Mythimna unipuncta NPV	#7	-	Harrison R L.	Yes	AUV65387.1	MF375894.1	AUV65372.1	MF375894.1	AUV65287.1	MF375894.1	AUV65260.1	MF375894.1
Mythimna unipuncta NPV	-	1411	Keathley C P.	No	AEY76172.1	JN701913.1	AEY76167.1	JN701908.1	-	-	AEY76162.1	JN701903.1
Mythimna unipuncta NPV	-	330	Keathley C P.	No	AEY76171.1	JN701912.1	AEY76166.1	JN701907.1	-	-	AEY76161.1	JN701902.1
Mythimna unipuncta NPV	-	KY310	Keathley C P.	No	AEY76174.1	JN701915.1	AEY76169.1	JN701910.1	-	-	AEY76164.1	JN701905.1
Mythimna unipuncta NPV	-	KY511	Keathley C P.	No	AEY76173.1	JN701914.1	AEY76168.1	JN701909.1	-	-	AEY76163.1	JN701904.1
Macroplectra nararia GV	254	-	Herniou E A/Thézé J.	No	AAS18582.1	AY449782.1	AA_JT_254_LEF9	NT_JT_254_LEF9	AAS13380.1	AY449762.1	AA_EH_254_POLH	NT_EH_254_POLH
Neodiprion abietis NPV	-	-	Duffy S P.	Yes	ABC74957.1	DQ317692.1	ABC74913.1	DQ317692.1	ABC74929.1	DQ317692.1	ABC74875.1	DQ317692.1
Neodiprion lecontei NPV	-	-	Lauzon H A.	Yes	AAQ99064.1	AY349019.1	AAQ99069.1	AY349019.1	AAQ99077.1	AY349019.1	AAQ99046.1	AY349019.1
Neodiprion sertifer NPV	-	-	Garcia-Maruniak A.	Yes	AAQ96458.1	AY430810.1	AAQ96417.1	AY430810.1	AAQ96432.1	AY430810.1	AAQ96378.1	AY430810.1
Neophasia sp NPV	-	11	Rohrmann G F.	No	AGO32793.1	KC798390.1	-	-	-	-	-	-
Nepytia phantasmaria NPV	-	A25-5	Jehle J A.	No	AAW49065.1	AY706571.1	AAW49129.1	AY706636.1	-	-	AAW49199.1	AY706709.1
Nymphalis io NPV	353	-	Herniou E A/Thézé J.	No	AA_EH_353_LEF8	NT_EH_353_LEF8	AA_JT_353_LEF9	NT_JT_353_LEF9	AA_EH_353_PIF2	NT_EH_353_PIF2	AA_EH_353_POLH	NT_EH_353_POLH
Operophtera bruceata NPV	-	ME	Broadley H J.	No	-	-	-	-	-	-	APM87666.1	KY064007.1
Operophtera brumata NPV	-	OpbuNPV-MA	Harrison R L.	Yes	AUA60270.1	MF614691.1	AUA60288.1	MF614691.1	AUA60357.1	MF614691.1	AUA60232.1	MF614691.1
Orgyia antiqua NPV	a9	-	Herniou E A/Thézé J.	No	AA_EH_a9_LEF8	NT_EH_a9_LEF8	AA_JT_a9_LEF9	NT_JT_a9_LEF9	AA_JT_a9_PIF2	NT_JT_a9_PIF2	AA_EH_a9_POLH	NT_EH_a9_POLH
Orgyia mixta NPV	67	-	Herniou E A/Thézé J.	No	AA_EH_67_LEF8	NT_EH_67_LEF8	AA_JT_67_LEF9	NT_JT_67_LEF9	-	-	AA_EH_67_POLH	NT_EH_67_POLH
Orgyia anartoides NPV	Oa-8	-	Bulach D M.	No	-	-	-	-	-	-	AAC33751.1	AF068188.1
Orgyia leucostigma NPV	-	CFS-77	Eveleigh R J M.	Yes	ABY65771.1	EU309041.1	ABY65757.1	EU309041.1	ABY65838.1	EU309041.1	ABY65727.1	EU309041.1
Orgyia pseudotsugata MNPV	-	-	Ahrens C H.	Yes	AAC59053.1	U75930.2	AAC59064.1	U75930.2	AAC59019.1	U75930.2	AAC59002.1	U75930.2
Orgyia pseudotsugata MNPV	-	-	Leisy D.	No	-	-	-	-	-	-	AAA64926.1	M14885.1
Orgyia pseudotsugata NPV	-	-	Jakubowska A.	No	AAX85352.1	AY895151.1	-	-	AAX85353.1	AY895152.1	AAX85351.1	AY895150.1
Oxyplax ochracea NPV	-	435	Wang J.	Yes	AVA31184.1	MF143631.1	AVA31173.1	MF143631.1	AVA31201.1	MF143631.1	AVA31100.1	MF143631.1
Pachypasa papryi NPV	436	-	Herniou E A/Thézé J.	No	AA_EH_436_LEF8	NT_EH_436_LEF8	AA_JT_436_LEF9	NT_JT_436_LEF9	AA_JT_436_PIF2	NT_JT_436_PIF2	AA_EH_436_POLH	NT_EH_436_POLH
Pandemis limitata GV	-	M36-1	Lange M.	No	AAT10261.1	AY519247.1	AAT10262.1	AY519248.1	-	-	AAT10260.1	AY519246.1
Panolis flammea NPV	i3	-	Herniou E A/Thézé J.	No	AA_EH_i3_LEF8	NT_EH_i3_LEF8	AA_JT_i3_LEF9	NT_JT_i3_LEF9	AA_JT_i3_PIF2	NT_JT_i3_PIF2	AA_EH_i3_POLH	NT_EH_i3_POLH
Peridroma morpontora GV	-	A25-3	Jehle J A.	No	AAW49067.1	AY706573.1	AAW49131.1	AY706638.1	-	-	AAW49162.1	AY706672.1
Peridroma sp NPV	-	167	Rohrmann G F.	No	AGO32801.1	KC798398.1	-	-	-	-	-	-
Peridroma sp NPV	-	GR_167	Rohrmann G F.	Yes	AIE47770.1	KM009991.1	AIE47783.1	KM009991.1	AIE47761.1	KM009991.1	AIE47733.1	KM009991.1
Peridroma margaritosa NPV	-	A25-4	Jehle J A.	No	AAW49066.1	AY706572.1	AAW49130.1	AY706637.1	-	-	AAW49200.1	AY706710.1
Perigonia lusca NPV	-	-	Ardissou-Araujo D M.	Yes	AKN80579.1	KM596836.1	AKN80631.1	KM596836.1	AKN80672.1	KM596836.1	AKN80547.1	KM596836.1
Perina nuda NPV	-	-	Chou C M.	No	-	-	-	-	-	-	AAA64782.1	U22824.1
Phalera bucephala NPV	204	-	Herniou E A/Thézé J.	No	-	-	AA_JT_204_LEF9	NT_JT_204_LEF9	-	-	AA_JT_204_POLH	NT_JT_204_POLH
Philosamia cynthia ricini NPV	-	-	Qian H.	Yes	AFY62901.1	JX404026.1	AFY62891.1	JX404026.1	AFY62926.1	JX404026.1	AFY62809.1	JX404026.1
Phryganidia californica NPV	-	M36-3	Lange M.	No	AAT10264.1	AY519250.1	AAT10265.1	AY519251.1	-	-	AAT10263.1	AY519249.1
Phthorimaea operculella GV	-	1	Jukes M D.	No	AHJ10838.1	KF724712.1	-	-	-	-	-	-
Phthorimaea operculella GV	-	2	Jukes M D.	No	ANY57510.1	KU666536.1	-	-	-	-	-	-
Phthorimaea operculella GV	-	SA	Jukes M D.	Yes	-	-	ANY57498.1	KU666536.1	ANY57433.1	KU666536.1	ANY57390.1	KU666536.1
Phthorimaea operculella GV	-	-	Croizier L.	Yes	AAM70319.1	AF499596.1	AAM70307.1	AF499596.1	AAM70242.1	AF499596.1	AAM70199.1	AF499596.1
Pieris brassicae GV	-	S54	Jehle J A.	No	ABB96979.1	DQ235252.1	-	-	-	-	ABB96980.1	DQ235253.1
Pieris rapae GV	E3	Guangxi	Wen R.	Yes	ADO85538.1	GU111736.1	ADO85528.1	GU111736.1	ADO85466.1	GU111736.1	ADO85426.1	GU111736.1
Pieris rapae GV	-	M36-7	Lange M.	No	AAT10267.1	AY519253.1	AAT10268.1	AY519254.1	-	-	AAT10266.1	AY519252.1
Pieris rapae GV	-	S55	Jehle J A.	No	AAW49069.1	AY706575.1	AAW49133.1	AY706640.1	-	-	AAW49163.1	AY706673.1
Pieris rapae GV	-	-	Chen K.	No	-	-	-	-	-	-	AAR06236.1	AY428513.1
Pieris rapae GV	-	-	Oh S.	Yes	AGS18865.1	JX968491.1	AGS18855.1	JX968491.1	AGS18803.1	JX968491.1	AGS18767.1	JX968491.1
Plathypena scabra GV	-	A25-6	Jehle J A.	No	AAW49073.1	AY706579.1	AAW49137.1	AY706644.1	-	-	AAW49165.1	AY706675.1
Plodia interpunctella GV	-	Cambridge	Harrison R L.	Yes	AP013998.1	KX151395.1	AP013986.1	KX151395.1	AP013925.1	KX151395.1	AP013885.1	KX151395.1
Plusia acuta NPV	-	A14-5	Jehle J A.	No	AAW49071.1	AY706577.1	AAW49135.1	AY706642.1	-	-	AAW49202.1	AY706712.1
Plutella maculipennis NPV	-	A15-2	Jehle J A.	No	AAW49072.1	AY706578.1	AAW49136.1	AY706643.1	-	-	AAW49203.1	AY706713.1
Plutella xylostella GV	K1	-	Hashimoto Y.	Yes	AAG27407.1	AF270937.1	AAG27397.1	AF270937.1	AAG27335.1	AF270937.1	AAG27302.1	AF270937.1
Plutella xylostella GV	-	PLXYGV-SA001	Abdulkadir F.	No	-	-	-	-	-	-	AIN44205.1	KJ939451.1
Plutella xylostella GV	-	PlxyGV-SA001	Abdulkadir F.	No	-	-	AKA19621.1	KM359682.1	-	-	-	-
Plutella xylostella GV	-	PlxyGV-SA001	Adbulkadir F.	No	AKA19620.1	KM288415.1	-	-	-	-	-	-
Plutella xylostella GV	-	PxGV_C	Spence R J.	Yes	AMQ35719.1	KU529791.1	AMQ35709.1	KU529791.1	AMQ35649.1	KU529791.1	AMQ35616.1	KU529791.1
Plutella xylostella GV	-	PxGV_K	Spence R J.	Yes	AMQ35836.1	KU529792.1	AMQ35826.1	KU529792.1	AMQ35766.1	KU529792.1	AMQ35733.1	KU529792.1
Plutella xylostella GV	-	PxGV_M	Spence R J.	Yes	AMQ35953.1	KU529793.1	AMQ35943.1	KU529793.1	AMQ35883.1	KU529793.1	AMQ35850.1	KU529793.1
Plutella xylostella GV	-	PxGV_T	Spence R J.	Yes	AMQ36070.1	KU529794.1	AMQ36060.1	KU529794.1	AMQ36000.1	KU529794.1	AMQ35967.1	KU529794.1
Plutella xylostella GV	-	SA	Jukes M D.	Yes	ANY57628.1	KU666537.1	ANY57618.1	KU666537.1	ANY57556.1	KU666537.1	ANY57523.1	KU666537.1
Plutella xylostella MNPV	-	CL3	Harrison R L.	Yes	ABE68436.1	DQ457003.1	ABE68448.1	DQ457003.1	ABE68407.1	DQ457003.1	ABE68393.1	DQ457003.1
Polygonia c-album NPV	380	-	Herniou E A/Thézé J.	No	AA_EH_380_LEF8	NT_EH_380_LEF8	AA_JT_380_LEF9	NT_JT_380_LEF9	AA_JT_380_PIF2	NT_JT_380_PIF2	AA_EH_380_POLH	NT_EH_380_POLH
Pseudalattia unipuncta GV	Hawaii	-	Tanada Y.	No	BAF45155.1	AB290317.1	BAF45156.1	AB290318.1	-	-	BAF45154.1	AB290316.1
Pseudalattia unipuncta GV	Hawaiiin	-	Li Y.	Yes	ACH69505.1	EU678671.1	ACH69495.1	EU678671.1	ACH69393.1	EU678671.1	ACH693	

Pseudoplusia includens NPV	-	458	Rowley D L.	No	ADY88159.1	HQ246015.1	ADY88160.1	HQ246016.1	-	-	ADY88161.1	HQ246017.1
Pseudoplusia includens NPV	-	Los_Angeles	Xu F.	No	-	-	-	-	-	-	ACD01440.1	EU401917.1
Pseudoplusia includens NPV	-	-	Xu F.	No	-	-	-	-	-	-	ACD01439.1	EU401916.1
Pseudoplusia includens NPV IE	-	-	Craveiro S R.	Yes	AJD80727.1	KJ631622.1	AJD80743.1	KJ631622.1	AJD80829.1	KJ631622.1	AJD80691.1	KJ631622.1
Pterolocera ampliicornis NPV	-	M36-2	Lange M.	No	AAT10270.1	AY519256.1	AAT10271.1	AY519257.1	-	-	AAT10269.1	AY519255.1
Rachiplusia nu MNPV	-	-	Rodriguez V A.	No	-	-	-	-	-	-	ABC75007.1	DQ345451.1
Rachiplusia ou MNPV	RI	-	Harrison R L.	No	-	-	-	-	-	-	AAC33758.1	AF068270.1
Rachiplusia ou MNPV	-	1239	Rowley D L.	No	AEY76284.1	JN674777.1	AEY76366.1	JN674773.1	-	-	AEY76312.1	JN674769.1
Rachiplusia ou MNPV	-	2436	Rowley D L.	No	AEY76285.1	JN674778.1	AEY76367.1	JN674774.1	-	-	AEY76313.1	JN674770.1
Rachiplusia ou MNPV	-	3036	Rowley D L.	No	AEY76286.1	JN674779.1	AEY76368.1	JN674775.1	-	-	AEY76314.1	JN674771.1
Rachiplusia ou MNPV	-	-	Harrison R L.	Yes	AAN28015.1	AY145471.1	AAN28030.1	AY145471.1	AAN28046.1	AY145471.1	AAN28081.1	AY145471.1
Samia cynthia NPV	Nagano	-	Sasaki K.	Yes	BBD50710.1	LC375538.1	BBD50698.1	LC375538.1	BBD50740.1	LC375538.1	BBD50607.1	LC375538.1
Samia cynthia NPV	-	S36	Jehle J A.	No	AAW49068.1	AY706574.1	AAW49132.1	AY706639.1	-	-	AAW49201.1	AY706711.1
Samia ricini NPV	Guangxi	1	Sasaki K.	No	-	-	-	-	-	-	BAX08922.1	LC194892.1
Samia ricini NPV	Guangxi	2	Sasaki K.	No	-	-	-	-	-	-	BAX08923.1	LC194893.1
Samia ricini NPV	Guangxi	3	Sasaki K.	No	-	-	-	-	-	-	BBD51066.1	LC375541.1
Samia ricini NPV	Guangxi	-	Sasaki K.	Yes	BBD51165.1	LC375541.1	BBD51154.1	LC375541.1	BBD51195.1	LC375541.1	-	-
Samia ricini NPV	Mondulkiri	-	Sasaki K.	Yes	BBD51317.1	LC375542.1	BBD51306.1	LC375542.1	BBD51347.1	LC375542.1	BBD51215.1	LC375542.1
Samia ricini NPV	Son_La	-	Sasaki K.	Yes	BBD51469.1	LC375543.1	BBD51458.1	LC375543.1	BBD51499.1	LC375543.1	BBD51367.1	LC375543.1
Scotogramma trifolii GV	-	A26-3	Jehle J A.	No	AAW49077.1	AY706583.1	AAW49141.1	AY706648.1	-	-	AAW49166.1	AY706676.1
Spilarctia obliqua NPV	-	IISR-NPV-02	Senthil Kumar C M.	No	ALA50705.1	KT149869.1	AKB91388.1	KP172302.1	-	-	AKB91387.1	KP172301.1
Lemyra imparilis NPV	n2	-	Herniou E A/Thézé J.	No	AA_JT_n2_LEF8	NT_JT_n2_LEF8	AA_JT_n2_LEF9	NT_JT_n2_LEF9	-	-	AA_JT_n2_POLH	NT_JT_n2_POLH
Spilosoma lutea GV	126	-	Herniou E A/Thézé J.	No	AA_EH_126_LEF8	NT_EH_126_LEF8	AA_JT_126_LEF9	NT_JT_126_LEF9	AA_JT_126_PIF2	NT_JT_126_PIF2	AA_EH_126_POLH	NT_EH_126_POLH
Spilosoma obliqua NPV	-	IIPR	Akram M.	Yes	AUR45123.1	KY550224.1	AUR45114.1	KY550224.1	AUR45149.1	KY550224.1	-	-
Spilosoma obliqua NPV	-	IIPRnpv1	Akram M.	No	-	-	-	-	-	-	AMO12809.1	KT877650.1
Spilosoma phasma NPV	-	S3	Jehle J A.	No	AAW49030.1	AY706536.1	AAW49094.1	AY706601.1	-	-	AAW49174.1	AY706684.1
Spodoptera androgea GV	-	A25-7	Jehle J A.	No	ABB96975.1	DQ235248.1	ABB96974.1	DQ235247.1	-	-	-	-
Spodoptera exempta NPV	k11	-	Herniou E A/Thézé J.	No	AA_EH_k11_LEF8	NT_EH_k11_LEF8	AA_JT_k11_LEF9	NT_JT_k11_LEF9	-	-	AA_EH_k11_POLH	NT_EH_k11_POLH
Spodoptera exempta NPV	-	var1	Graham R I.	No	-	-	-	-	-	-	AFV47364.1	JX488468.1
Spodoptera exigua MNPV	-	HT-SeG24	Theze J.	Yes	CDG72864.1	HG425346.1	CDG72848.1	HG425346.1	CDG72787.1	HG425346.1	CDG72755.1	HG425346.1
Spodoptera exigua MNPV	-	HT-SeG25	Theze J.	Yes	CDG73016.1	HG425347.2	CDG73000.1	HG425347.2	CDG72939.1	HG425347.2	CDG72907.1	HG425347.2
Spodoptera exigua MNPV	-	HT-SeG26	Theze J.	Yes	CDG73153.1	HG425348.1	CDG73137.1	HG425348.1	CDG73076.1	HG425348.1	CDG73044.1	HG425348.1
Spodoptera exigua MNPV	-	HT-SeSP2A	Theze J.	Yes	CDG73291.1	HG425349.2	CDG73275.1	HG425349.2	CDG73214.1	HG425349.2	CDG73214.1	HG425349.2
Spodoptera exigua MNPV	-	VT-SeA11	Theze J.	Yes	CDG72453.1	HG425343.1	CDG72437.1	HG425343.1	CDG72376.1	HG425343.1	CDG72344.1	HG425343.1
Spodoptera exigua MNPV	-	VT-SeA12	Theze J.	Yes	CDG72590.1	HG425344.1	CDG72574.1	HG425344.1	CDG72513.1	HG425344.1	CDG72481.1	HG425344.1
Spodoptera exigua MNPV	-	VT-SeOx4	Theze J.	Yes	CDG72727.1	HG425345.1	CDG72711.1	HG425345.1	CDG72650.1	HG425345.1	CDG72618.1	HG425345.1
Spodoptera exigua MNPV	-	YV	Darsouei R.	No	AMT85883.1	KT956220.1	-	-	-	-	AMT85884.1	KT956221.1
Spodoptera exigua MNPV	-	-	El-DougDoug K A.	No	-	-	-	-	-	-	ACU83791.1	GQ392064.1
Spodoptera exigua MNPV	-	-	IJkel W F.	Yes	AAF33641.1	AF169823.1	AAF33626.1	AF169823.1	AAF33565.1	AF169823.1	AF169823.1	AF169823.1
Spodoptera frugiperda GV	-	A12-4	Jehle J A.	No	AAW49078.1	AY706584.1	AAW49142.1	AY706649.1	-	-	AAW49167.1	AY706677.1
Spodoptera frugiperda GV	-	VG008	Cuartas P E.	Yes	AJK91785.1	KM371112.1	AJK91776.1	KM371112.1	AJK91698.1	KM371112.1	AJK91662.1	KM371112.1
Spodoptera frugiperda GV	-	VG014	Cuartas P.	No	AID68459.1	KJ698694.1	AID68457.1	KJ698692.1	-	-	KJ698696.1	KJ698696.1
Spodoptera frugiperda MNPV	-	1	Rowley D L.	No	ACX50935.1	GQ923694.1	-	-	-	-	ACX50949.1	GQ923749.1
Spodoptera frugiperda MNPV	-	1	Simon O.	Yes	ADV91346.1	HM595733.1	ADV91330.1	HM595733.1	ADV91265.1	HM595733.1	HM595733.1	HM595733.1
Spodoptera frugiperda MNPV	-	19	Wolff J L.	Yes	ACA02670.1	EU258200.1	ACA02654.1	EU258200.1	ACA02591.1	EU258200.1	EU258200.1	EU258200.1
Spodoptera frugiperda MNPV	-	2	Rowley D L.	No	ACX50936.1	GQ923695.1	-	-	-	-	ACX50950.1	GQ923750.1
Spodoptera frugiperda MNPV	-	2	Simon O.	Yes	AFH59057.1	JF899325.1	AFH59095.1	JF899325.1	AFH58984.1	JF899325.1	AFH58964.1	JF899325.1
Spodoptera frugiperda MNPV	-	2705	Rowley D L.	No	ACX50947.1	GQ923706.1	-	-	-	-	ACX50961.1	GQ923761.1
Spodoptera frugiperda MNPV	-	281	Rowley D L.	No	ACX50941.1	GQ923700.1	-	-	-	-	ACX50955.1	GQ923755.1
Spodoptera frugiperda MNPV	-	3	Rowley D L.	No	ACX50937.1	GQ923696.1	-	-	-	-	ACX50951.1	GQ923751.1
Spodoptera frugiperda MNPV	-	3146	Rowley D L.	No	ACX50948.1	GQ923707.1	-	-	-	-	ACX50962.1	GQ923762.1
Spodoptera frugiperda MNPV	-	3AP2	Harrison R L.	Yes	ABM45823.1	EF035042.2	ABM45807.1	EF035042.2	ABM45744.1	EF035042.2	ABM45713.1	EF035042.2
Spodoptera frugiperda MNPV	-	4	Rowley D L.	No	ACX50938.1	GQ923697.1	-	-	-	-	ACX50952.1	GQ923752.1
Spodoptera frugiperda MNPV	-	459	Rowley D L.	No	ACX50942.1	GQ923701.1	-	-	-	-	ACX50956.1	GQ923756.1
Spodoptera frugiperda MNPV	-	5	Rowley D L.	No	ACX50939.1	GQ923698.1	-	-	-	-	ACX50953.1	GQ923753.1
Spodoptera frugiperda MNPV	-	6	Rowley D L.	No	ACX50940.1	GQ923699.1	-	-	-	-	ACX50954.1	GQ923754.1
Spodoptera frugiperda MNPV	-	635	Rowley D L.	No	ACX50943.1	GQ923702.1	-	-	-	-	ACX50957.1	GQ923757.1
Spodoptera frugiperda MNPV	-	636	Rowley D L.	No	ACX50944.1	GQ923703.1	-	-	-	-	ACX50958.1	GQ923758.1
Spodoptera frugiperda MNPV	-	637	Rowley D L.	No	ACX50945.1	GQ923704.1	-	-	-	-	ACX50959.1	GQ923759.1
Spodoptera frugiperda MNPV	-	638	Rowley D L.	No	ACX50946.1	GQ923705.1	-	-	-	-	ACX50960.1	GQ923760.1
Spodoptera frugiperda MNPV	-	Colombian	Barrera G P.	Yes	AIW01525.1	KF891883.1	AIW01508.1	KF891883.1	AIW01444.1	KF891883.1	AIW01411.1	KF891883.1
Spodoptera frugiperda MNPV	-	Guasave	Escobedo-Bonilla C M.	No	-	-	-	-	-	-	AGQ50611.1	KC845532.1
Spodoptera frugiperda MNPV	-	-	Gonzalez M A.	No	-	-	-	-	-	-	AAA46737.1	J04333.1
Spodoptera littoralis GV	66	-	Herniou E A/Thézé J.	No	AAS18590.1	AY449790.1	AA_JT_66_LEF9	NT_JT_66_LEF9	AAS13387.1	AY449769.1	AA_EH_66_POLH	NT_EH_66_POLH
Spodoptera littoralis MNPV	-	Az	Martins T.	No	-	-	-	-	-	-	AAT10182.1	AY600451.1
Spodoptera littoralis NPV	SIMNPV-M2	-	Croizier L.	No	-	-	-	-	-	-	BAA00824.1	D01017.1
Spodoptera littoralis NPV	Spli1	-	Takatsuka J.	No	-	-	-	-	-	-	BAV21615.1	LC109272.1
Spodoptera littoralis NPV	-	1213	Breitenbach J E.	No	AGE89990.1	JX454577.1	AGE90005.1	JX454592.1	-	-	AGE89997.1	JX454584.1
Spodoptera littoralis NPV	-	1263	Breitenbach J E.	No	AGE89988.1	JX454575.1	AGE90011.1	JX454598.1	-	-	AGE90003.1	JX454590.1
Spodoptera littoralis NPV	-	1628	Breitenbach J E.	No	AGE89991.1	JX454578.1	AGE90006.1	JX454593.1	-	-	AGE89998.1	JX454585.1
Spodoptera littoralis NPV	-	2424	Breitenbach J E.	No	AGE89992.1	JX454579.1	AGE90007.1	JX454594.1	-	-	AGE89999.1	JX454586.1
Spodoptera littoralis NPV	-	3003	Breitenbach J E.	No	AGE89993.1	JX454580.1	AGE90008.1	JX454595.1	-	-	AGE90000.1	JX454587.1
Spodoptera littoralis NPV	-	3017	Breitenbach J E.	No	AGE89994.1	JX454581.1	AGE90009.1	JX454596.1	-	-	AGE90001.1	JX454588.1
Spodoptera littoralis NPV	-	3032	Breitenbach J E.	No	AGE89995.1	JX454582.1	AGE90010.1	JX454597.1	-	-	AGE90002.1	JX454589.1
Spodoptera littoralis NPV	-	454	Breitenbach J E.	No	AGE89989.1	JX454576.1	AGE90004.1	JX454591.1	-	-	AGE89996.1	JX454583.1
Spodoptera littoralis NPV	-	A26-5	Jehle J A.	No	AAW49079.1	AY706585.1	AAW49143.1	AY706650.1	-	-	AAW49207.1	AY706717.1
Spodoptera littoralis NPV	-	A9-1	Jehle J A.	No	AAW49080.1	AY706586.1	AAW49144.1	AY706651.1	-	-	AAW49208.1	AY706718.1
Spodoptera littoralis NPV	-	AN1956	Breitenbach J E.	Yes	AGE89889.1	JX454574.1	AGE89908.1	JX454574.1	AGE89982.1	JX454574.1	AGE89856.1	JX454574.1
Spodoptera littoralis NPV	-	Egy-SLNPV	Ahmed Y E.	No	-	-	-	-	-	-	AQM49881.1	KY072799.1
Spodoptera littoralis NPV	-	SIMNPV-B_isolate_E15	Faktor O.	No	CAA71676.1	Y10669.1	-	-	-	-	-	-
Spodoptera littoralis NPV	-	-	Seufi A.	No	-	-	-	-	-	-	-	-
Spodoptera litura GV	-	SIGV-K1	Wang Y.	Yes	ABQ52064.1	DQ288858.2	ABQ52050.1	DQ288858.2	ABQ51982.1	DQ288858.2	ABB96246.2	DQ288858.2
Spodoptera litura MNPV	B-0-4	-	Zhu J.	No	-	-	-	-	ACJ04732.1	FJ384666.1	-	-
Spodoptera litura MNPV	G10-3	-	Zhu J.	No	-	-	-	-	-	-	AAS90121.1	AY549964.1
Spodoptera litura MNPV	K-3	-	Zhu J.	No	-	-	-	-	-	-	AAS58468.1	AY552474.1
Spodoptera litura NPV	Bangalore	-	Jose J.	No	AEA36765.1	JF276035.1	-	-	-	-	-	-
Spodoptera litura NPV	E8	-	Bulach D M.	No	-	-	-	-	-	-	AAC33752.1	AF068189.1
Spodoptera litura NPV	G2	-	Pang Y.	Yes	AAL01723.1	AF325155.1	AAL01741.1	AF325155.1	AAL01817.1	AF325155.1	AF325155.1	AF325155.1
Spodoptera litura NPV	GZ-1	-	Wei Y J.	No	-	-	-	-	-	-	AAC09246.1	AF037262.1
Spodoptera litura NPV	K1	-	Woo S.	No	-	-	-	-	-	-	AAZ78353.1	DQ152923.1
Spodoptera litura NPV	Satsuma	-	Kouassi L N.	No	BAF74736.1	AB326103.1	BAF74737.1	AB326104.1	-	-	BAF74735.1	AB326102.1
Spodoptera litura NPV	Splt1	-	Takatsuka J.	No	-	-	-	-	-	-	BAV21616.1	LC109273.1
Spodoptera litura NPV	-	A17-3	Jehle J A.	No	AAW49074.1	AY706580.1	AAW49138.1	AY706645.1	-	-	AAW49204.1	AY706714.1

Spodoptera litura NPV	-	Act-1	Kouassi L N.	No	BAG68172.1	AB451187.1	-	-	-	-	-	-
Spodoptera litura NPV	-	Lab-1	Kouassi L N.	No	BAG68171.1	AB451186.1	-	-	-	-	-	-
Spodoptera litura NPV	-	Os-7	Kouassi L N.	No	BAG68170.1	AB451185.1	-	-	-	-	-	-
Spodoptera litura NPV	-	S37	Jehle J A.	No	AAW49075.1	AY706581.1	AAW49139.1	AY706646.1	-	-	AAW49205.1	AY706715.1
Spodoptera litura NPV	-	SINPV-K2	Wang Y.	No	-	-	-	-	-	-	ABC71077.1	DQ350142.1
Spodoptera litura NPV	-	-	Kouassi L N.	No	BAJ16214.1	AB583682.1	BAG71781.1	AB458508.1	-	-	-	-
Spodoptera litura NPV	-	-	Li C.	No	-	-	-	-	AAF72593.1	AF216302.1	-	-
Spodoptera litura NPV II	-	-	Li Y.	Yes	ACI47485.1	EU780426.1	ACI47468.1	EU780426.1	ACI47405.1	EU780426.1	ACI47370.1	EU780426.1
Spodoptera albula NPV	k7	-	Herniou E A/Thézé J.	No	AA_JT_k7_LEF8	NT_JT_k7_LEF8	AA_JT_k7_LEF9	NT_JT_k7_LEF9	-	-	AA_EH_k7_POLH	NT_EH_k7_POLH
Spodoptera terricola NPV	-	A26-1	Jehle J A.	No	AAW49076.1	AY706582.1	AAW49140.1	AY706647.1	-	-	AAW49206.1	AY706716.1
Sucra jujuba NPV	-	473	Liu X.	Yes	AIU41272.1	KJ676450.1	AIU41288.1	KJ676450.1	AIU41352.1	KJ676450.1	AIU41240.1	KJ676450.1
Thysanoplusia orichalcea NPV	-	A28-1	Jehle J A.	No	AAW49081.1	AY706587.1	AAW49145.1	AY706652.1	-	-	AAW49209.1	AY706719.1
Thysanoplusia orichalcea NPV	-	-	Cheng X W.	No	-	-	-	-	-	-	AAD51629.1	AF169480.1
Thysanoplusia orichalcea NPV	-	-	Wang L.	No	-	-	ABV69586.1	EU153368.1	-	-	-	-
Thysanoplusia orichalcea NPV	-	p2	Wang Y S.	Yes	AGA16201.1	JX467702.1	AGA16213.1	JX467702.1	AGA16176.1	JX467702.1	AGA16163.1	JX467702.1
Tineola bisselliella NPV	-	M50-4	Jehle J A.	No	AAW49082.1	AY706588.1	AAW49146.1	AY706653.1	-	-	AAW49210.1	AY706720.1
Trabala vishnou NPV	195	-	Herniou E A/Thézé J.	No	AA_EH_195_LEF8	NT_EH_195_LEF8	-	-	-	-	AA_EH_195_POLH	NT_EH_195_POLH
Trichoplusia ni GV	-	M10-5	Lange M.	No	AAT10216.1	AY519202.1	AAT10217.1	AY519203.1	-	-	AAT10215.1	AY519201.1
Trichoplusia ni GV	-	-	Akiyoshi D.	No	-	-	-	-	-	-	AAA43834.1	K02910.1
Trichoplusia ni GV LBIV-12	-	LBIV-12	Del Rincon-Castro M C.	Yes	AOW41483.1	KU752557.1	AOW41473.1	KU752557.1	AOW41376.1	KU752557.1	AOW41340.1	KU752557.1
Trichoplusia ni NPV	-	1004	Rowley D L.	No	AEY76274.1	JN674759.1	AEY76356.1	JN674735.1	-	-	AEY76302.1	JN674711.1
Trichoplusia ni NPV	-	1141	Rowley D L.	No	AEY76275.1	JN674760.1	AEY76357.1	JN674736.1	-	-	AEY76303.1	JN674712.1
Trichoplusia ni NPV	-	1185	Rowley D L.	No	AEY76276.1	JN674761.1	AEY76358.1	JN674737.1	-	-	AEY76304.1	JN674713.1
Trichoplusia ni NPV	-	1237	Rowley D L.	No	AEY76277.1	JN674762.1	AEY76359.1	JN674738.1	-	-	AEY76305.1	JN674714.1
Trichoplusia ni NPV	-	1241	Rowley D L.	No	AEY76278.1	JN674763.1	AEY76360.1	JN674739.1	-	-	AEY76306.1	JN674715.1
Trichoplusia ni NPV	-	207	Rowley D L.	No	AEY76260.1	JN674745.1	AEY76342.1	JN674721.1	-	-	AEY76288.1	JN674697.1
Trichoplusia ni NPV	-	209	Rowley D L.	No	AEY76261.1	JN674746.1	AEY76343.1	JN674722.1	-	-	AEY76289.1	JN674698.1
Trichoplusia ni NPV	-	227	Rowley D L.	No	AEY76262.1	JN674747.1	AEY76344.1	JN674723.1	-	-	AEY76290.1	JN674699.1
Trichoplusia ni NPV	-	230	Rowley D L.	No	AEY76263.1	JN674748.1	AEY76345.1	JN674724.1	-	-	AEY76291.1	JN674700.1
Trichoplusia ni NPV	-	239	Rowley D L.	No	AEY76264.1	JN674749.1	AEY76346.1	JN674725.1	-	-	AEY76292.1	JN674701.1
Trichoplusia ni NPV	-	242	Rowley D L.	No	AEY76265.1	JN674750.1	AEY76347.1	JN674726.1	-	-	AEY76293.1	JN674702.1
Trichoplusia ni NPV	-	246	Rowley D L.	No	AEY76266.1	JN674751.1	AEY76348.1	JN674727.1	-	-	AEY76294.1	JN674703.1
Trichoplusia ni NPV	-	252	Rowley D L.	No	AEY76267.1	JN674752.1	AEY76349.1	JN674728.1	-	-	AEY76295.1	JN674704.1
Trichoplusia ni NPV	-	2541	Rowley D L.	No	AEY76279.1	JN674764.1	AEY76361.1	JN674740.1	-	-	AEY76307.1	JN674716.1
Trichoplusia ni NPV	-	270	Rowley D L.	No	AEY76268.1	JN674753.1	AEY76350.1	JN674729.1	-	-	AEY76296.1	JN674705.1
Trichoplusia ni NPV	-	2700	Rowley D L.	No	AEY76280.1	JN674765.1	AEY76362.1	JN674741.1	-	-	AEY76308.1	JN674717.1
Trichoplusia ni NPV	-	2703	Rowley D L.	No	AEY76281.1	JN674766.1	AEY76363.1	JN674742.1	-	-	AEY76309.1	JN674718.1
Trichoplusia ni NPV	-	271	Rowley D L.	No	AEY76269.1	JN674754.1	AEY76351.1	JN674730.1	-	-	AEY76297.1	JN674706.1
Trichoplusia ni NPV	-	282	Rowley D L.	No	AEY76270.1	JN674755.1	AEY76352.1	JN674731.1	-	-	AEY76298.1	JN674707.1
Trichoplusia ni NPV	-	3073	Rowley D L.	No	AEY76282.1	JN674767.1	AEY76364.1	JN674743.1	-	-	AEY76310.1	JN674719.1
Trichoplusia ni NPV	-	3091	Rowley D L.	No	AEY76283.1	JN674768.1	AEY76365.1	JN674744.1	-	-	AEY76311.1	JN674720.1
Trichoplusia ni NPV	-	397	Rowley D L.	No	AEY76271.1	JN674756.1	AEY76353.1	JN674732.1	-	-	AEY76299.1	JN674708.1
Trichoplusia ni NPV	-	399	Rowley D L.	No	AEY76272.1	JN674757.1	AEY76354.1	JN674733.1	-	-	AEY76300.1	JN674709.1
Trichoplusia ni NPV	-	455	Rowley D L.	No	AEY76273.1	JN674758.1	AEY76355.1	JN674734.1	-	-	AEY76301.1	JN674710.1
Trichoplusia ni NPV	-	-	Abrahams R.	No	-	-	AAS48079.1	AY542547.1	-	-	-	-
Trichoplusia ni NPV	-	-	Fielding B C.	No	-	-	-	-	-	-	AAC64160.1	AF093405.1
Trichoplusia ni NPV	-	-	Willis L G.	Yes	AAZ67404.1	DQ017380.1	AAZ67420.1	DQ017380.1	AAZ67511.1	DQ017380.1	AAZ67370.1	DQ017380.1
Trichoplusia orichalcea NPV	b9	-	Herniou E A/Thézé J.	No	AA_JT_b9_LEF8	NT_JT_b9_LEF8	-	-	-	-	AA_EH_b9_POLH	NT_EH_b9_POLH
Urbanus proteus NPV	-	Southern_Brazil	Santos E R.	Yes	AKR17346.1	KR011717.2	AKR17300.1	KR011717.2	AKR17325.1	KR011717.2	AKR17274.1	KR011717.2
Utetheisa pulchella NPV	142	-	Herniou E A/Thézé J.	No	AA_JT_142_LEF8	NT_JT_142_LEF8	-	-	-	-	AA_EH_142_POLH	NT_EH_142_POLH
Vanessa atalanta NPV	54	-	Herniou E A/Thézé J.	No	AA_EH_54_LEF8	NT_EH_54_LEF8	AA_JT_54_LEF9	NT_JT_54_LEF9	AA_JT_54_PIF2	NT_JT_54_PIF2	AA_EH_54_POLH	NT_EH_54_POLH
Vanessa cardui NPV	367	-	Herniou E A/Thézé J.	No	AA_EH_367_LEF8	NT_EH_367_LEF8	AA_JT_367_LEF9	NT_JT_367_LEF9	AA_JT_367_PIF2	NT_JT_367_PIF2	AA_EH_367_POLH	NT_EH_367_POLH
Wiseana cervinata GV	342	-	Herniou E A/Thézé J.	No	AA_EH_342_LEF8	NT_EH_342_LEF8	-	-	AA_JT_342_PIF2	NT_JT_342_PIF2	AA_EH_342_POLH	NT_EH_342_POLH
Wiseana cervinata NPV	344	-	Herniou E A/Thézé J.	No	AAS18584.1	AY449784.1	-	-	AAS13382.1	AY449764.1	AA_EH_344_POLH	NT_EH_344_POLH
Wiseana signata NPV	WisiSNPV	-	Sadler T J.	No	-	-	-	-	-	-	AAB97154.1	AF016916.1
Xestia c-nigrum GV	alpha-4	-	Goto C.	No	AAB46500.1	U70914.1	AAB46499.1	U70913.1	AAB46481.1	U70891.1	AAB42059.1	U70069.1
Xestia c-nigrum GV	-	-	Hayakawa T.	Yes	AAF05262.1	AF162221.1	AAF05253.1	AF162221.1	AAF05159.1	AF162221.1	AAF05115.1	AF162221.1

Table S2. Host ecology database

Order	Superfamily	Family	Subfamily	Species	Pest?	Ecozone	Host plant growth
Diptera	Culicidae	Culicidae	Culicinae	<i>Culex nigripalpus</i>	Yes	Neotropical	Detritophagous
Hymenoptera	Tenthredinoidea	Diprionidae	Diprioninae	<i>Neodiprion abietis</i>	Yes	Nearctic	Woody
Hymenoptera	Tenthredinoidea	Diprionidae	Diprioninae	<i>Neodiprion lecontei</i>	Yes	Nearctic	Woody
Hymenoptera	Tenthredinoidea	Diprionidae	Diprioninae	<i>Neodiprion sertifer</i>	Yes	Paleartic	Woody
Lepidoptera	Bombycoidea	Saturniidae	Saturniinae	<i>Actias selene</i>		Indo-Malaya	Woody
Lepidoptera	Bombycoidea	Saturniidae	Saturniinae	<i>Antheraea pernyi</i>		Cosmopolitan	Woody
Lepidoptera	Bombycoidea	Saturniidae	Saturniinae	<i>Antheraea proylei</i>		Indo-Malaya	Woody
Lepidoptera	Bombycoidea	Saturniidae	Saturniinae	<i>Antheraea yamamai</i>		Paleartic	Woody
Lepidoptera	Bombycoidea	Saturniidae	Saturniinae	<i>Samia cynthia</i>		Cosmopolitan	Woody
Lepidoptera	Bombycoidea	Saturniidae	Hemileucinae	<i>Coloradia pandora</i>		Nearctic	Woody
Lepidoptera	Bombycoidea	Saturniidae	Hemileucinae	<i>Dirphia peruvianus</i>		Neotropical	Woody
Lepidoptera	Bombycoidea	Saturniidae	Hemileucinae	<i>Hemileuca sp</i>		Nearctic	Woody
Lepidoptera	Bombycoidea	Saturniidae	Hemileucinae	<i>Lonomia obliqua</i>		Neotropical	Woody
Lepidoptera	Bombycoidea	Bombycidae	Endromidae	<i>Andraca bipunctata</i>	Yes	Indo-Malaya	Woody
Lepidoptera	Bombycoidea	Bombycidae	Bombycinae	<i>Bombyx mandarina</i>		Paleartic	Woody
Lepidoptera	Bombycoidea	Bombycidae	Bombycinae	<i>Bombyx mori</i>		Cosmopolitan	Woody
Lepidoptera	Bombycoidea	Sphingidae	Smerinthinae	<i>Clanis bilineata</i>		Cosmopolitan	Woody
Lepidoptera	Bombycoidea	Sphingidae	Macroglossinae	<i>Erinnyis ello</i>		Americas	Herb/Woody
Lepidoptera	Bombycoidea	Sphingidae	Macroglossinae	<i>Perigonia lusca</i>		Neotropical	Woody
Lepidoptera	Bombycoidea	Anthelidae	Anthelinae	<i>Pterolocera amplicornis</i>		Australasia	Herbaceous
Lepidoptera	Choreutoidea	Choreutidae	Choreutinae	<i>Anthophila fabriciana</i>		Paleartic	Herbaceous
Lepidoptera	Gelechioidea	Gelechiidae	Gelechiinae	<i>Phthorimaea operculella</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Geometroidea	Geometridae	Ennominae	<i>Abraxas grossulariata</i>		Paleartic	Woody
Lepidoptera	Geometroidea	Geometridae	Ennominae	<i>Apocheima cinerarium</i>	Yes	Paleartic	Woody
Lepidoptera	Geometroidea	Geometridae	Ennominae	<i>Boarmia bistortata</i>		Paleartic	Woody
Lepidoptera	Geometroidea	Geometridae	Ennominae	<i>Buzura suppressaria</i>		Indo-Malaya	Woody
Lepidoptera	Geometroidea	Geometridae	Ennominae	<i>Ectropis griseascens</i>		Indo-Malaya	Woody
Lepidoptera	Geometroidea	Geometridae	Ennominae	<i>Ectropis obliqua</i>		Indo-Malaya	Woody
Lepidoptera	Geometroidea	Geometridae	Ennominae	<i>Erannis defoliaria</i>		Paleartic	Woody
Lepidoptera	Geometroidea	Geometridae	Ennominae	<i>Hyposidra infixaria</i>		Indo-Malaya	Woody
Lepidoptera	Geometroidea	Geometridae	Ennominae	<i>Hyposidra talaca</i>		Indo-Malaya	Woody
Lepidoptera	Geometroidea	Geometridae	Ennominae	<i>Lambdina fiscellaria</i>		Nearctic	Woody
Lepidoptera	Geometroidea	Geometridae	Ennominae	<i>Nepytia phantasmaria</i>		Nearctic	Woody
Lepidoptera	Geometroidea	Geometridae	Ennominae	<i>Sucra jujuba</i>	Yes	Indo-Malaya	Woody
Lepidoptera	Geometroidea	Geometridae	Sterrhinae	<i>Idea seriata</i>		Paleartic	Woody
Lepidoptera	Geometroidea	Geometridae	Larentiinae	<i>Operophtera bruceata</i>	Yes	Nearctic	Woody
Lepidoptera	Geometroidea	Geometridae	Larentiinae	<i>Operophtera brumata</i>	Yes	Holarctic	Woody
Lepidoptera	Gracillarioidea	Gracillariidae	Gracillariinae	<i>Caloptilia theivora</i>	Yes	Indo-Malaya	Woody
Lepidoptera	Hepialoidea	Hepialidae	Hepialidae	<i>Wiseana cervinata</i>	Yes	Australasia	Herbaceous
Lepidoptera	Hepialoidea	Hepialidae	Hepialidae	<i>Wiseana signata</i>		Australasia	Herbaceous
Lepidoptera	Lasiocampoidea	Lasiocampidae	Pinarinae	<i>Cyclophragma undans</i>		Paleartic	Woody
Lepidoptera	Lasiocampoidea	Lasiocampidae	Lasiocampinae	<i>Dendrolimus kikuchii</i>		Indo-Malaya	Woody
Lepidoptera	Lasiocampoidea	Lasiocampidae	Lasiocampinae	<i>Lasiocampa quercus</i>		Paleartic	Woody
Lepidoptera	Lasiocampoidea	Lasiocampidae	Malacosomatinae	<i>Malacosoma americanum</i>		Nearctic	Woody
Lepidoptera	Lasiocampoidea	Lasiocampidae	Malacosomatinae	<i>Malacosoma californicum</i>		Nearctic	Woody
Lepidoptera	Lasiocampoidea	Lasiocampidae	Malacosomatinae	<i>Malacosoma disstria</i>		Nearctic	Woody
Lepidoptera	Lasiocampoidea	Lasiocampidae	Malacosomatinae	<i>Malacosoma neustria</i>		Paleartic	Woody
Lepidoptera	Lasiocampoidea	Lasiocampidae	Pinarinae	<i>Pachypasa papyri</i>	Yes	Afrotropical	Woody
Lepidoptera	Lasiocampoidea	Lasiocampidae	Lasiocampinae	<i>Trabala vishnou</i>	Yes	Indo-Malaya	Woody
Lepidoptera	Noctuoidea	Erebidae	Erebinae	<i>Achaea faber</i>	Yes	Afrotropical	Woody
Lepidoptera	Noctuoidea	Erebidae	Erebinae	<i>Achaea janata</i>	Yes	Indo-Malaya	Woody
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Agrotis exclamationis</i>	Yes	Paleartic	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Agrotis ipsilon</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Agrotis segetum</i>	Yes	Paleartic	Herbaceous
Lepidoptera	Noctuoidea	Erebidae	Arctiinae	<i>Amsacta albistriga</i>		Indo-Malaya	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Plusiinae	<i>Anagrapha falcifera</i>	Yes	Nearctic	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Scoliopteryginae	<i>Anomis sabulifera</i>	Yes	Paleotropical	Woody
Lepidoptera	Noctuoidea	Noctuidae	Eulepidotinae	<i>Anticarsia gemmatilis</i>	Yes	Americas	Herbaceous
Lepidoptera	Noctuoidea	Erebidae	Catocalinae	<i>Aroa discalis</i>		Afrotropical	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Plusiinae	<i>Autographa biloba</i>	Yes	Nearctic	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Plusiinae	<i>Autographa californica</i>	Yes	Nearctic	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Plusiinae	<i>Autographa gamma</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Plusiinae	<i>Autographa nigrisigna</i>	Yes	Indo-Malaya	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Amphipyriinae	<i>Busseola fusca</i>	Yes	Afrotropical	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Cerapteryx graminis</i>		Holarctic	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Plusiinae	<i>Chrysodeixis chalcites</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Noctuoidea	Notodontidae	Pygaerinae	<i>Clostera anachoreta</i>		Paleartic	Woody
Lepidoptera	Noctuoidea	Notodontidae	Pygaerinae	<i>Clostera anastomosis</i>		Paleartic	Woody
Lepidoptera	Noctuoidea	Notodontidae	Thaumetopoeinae	<i>Cynosarga chrysolopa</i>		Australasia	Woody
Lepidoptera	Noctuoidea	Limacodidae	Limacodinae	<i>Darna trima</i>		Indo-Malaya	Woody
Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Dasychira plagata</i>		Nearctic	Woody
Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Dasychira pudibunda</i>		Paleartic	Woody
Lepidoptera	Noctuoidea	Erebidae	Arctiinae	<i>Estigmene acrea</i>		Nearctic	Herb/Woody
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Euplexia lucipara</i>		Paleartic	Herbaceous
Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Euproctis chrysorrhoea</i>		Holarctic	Woody
Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Euproctis digramma</i>		Indo-Malaya	Woody
Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Euproctis pseudoconsersa</i>		Paleartic	Woody
Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Euproctis similis</i>		Nearctic	Woody

Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Hemerocampa vetusta</i>		Nearctic	Woody
Lepidoptera	Noctuoidea	Erebidae	Arctiinae	<i>Hyphantria cunea</i>		Holarctic	Woody
Lepidoptera	Noctuoidea	Erebidae	Arctiinae	<i>Lemyra imparilis</i>		Paleartic	Woody
Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Leucoma salicis</i>		Holarctic	Woody
Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Lymantria dispar</i>	Yes	Holarctic	Woody
Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Lymantria mathura</i>		Paleartic	Woody
Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Lymantria monacha</i>		Paleartic	Woody
Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Lymantria xyliana</i>		Indo-Malaya	Woody
Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Orgyia anartoides</i>	Yes	Australasia	Woody
Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Orgyia antiqua</i>	Yes	Cosmopolitan	Woody
Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Orgyia leucostigma</i>	Yes	Nearctic	Woody
Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Orgyia mixta</i>	Yes	Afrotropical	Woody
Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Orgyia pseudotsugata</i>	Yes	Nearctic	Woody
Lepidoptera	Noctuoidea	Erebidae	Lymantriinae	<i>Perina nuda</i>	Yes	Indo-Malaya	Woody
Lepidoptera	Noctuoidea	Erebidae	Arctiinae	<i>Pareuchaetes pseudoinsulata</i>		Pantropical	Woody
Lepidoptera	Noctuoidea	Erebidae	Arctiinae	<i>Spilosoma lutea</i>		Paleartic	Herb/Woody
Lepidoptera	Noctuoidea	Erebidae	Arctiinae	<i>Spilosoma obliqua</i>		Indo-Malaya	Herb/Woody
Lepidoptera	Noctuoidea	Erebidae	Arctiinae	<i>Spilosoma phasma</i>		Paleartic	Woody
Lepidoptera	Noctuoidea	Erebidae	Arctiinae	<i>Utetheisa pulchella</i>		Paleotropical	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Hadeninae	<i>Mocis latipes</i>		Neotropical	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Hadeninae	<i>Pseudaletia sp</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Hadeninae	<i>Mythimna unipuncta</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Heliothinae	<i>Helicoverpa armigera</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Heliothinae	<i>Helicoverpa assulta</i>		Pantropical	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Heliothinae	<i>Helicoverpa gelatopoeon</i>		Neotropica	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Heliothinae	<i>Helicoverpa zea</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Hypeninae	<i>Hypena scabra</i>	Yes	Nearctic	Herb/Woody
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Euxoa ochrogaster</i>		Holarctic	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Hoplodrina ambigua</i>		Paleartic	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Lacanobia oleracea</i>		Paleartic	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Leucania separata</i>	Yes	Indo-Malaya	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Mamestra brassicae</i>	Yes	Paleartic	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Mamestra configurata</i>	Yes	Nearctic	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Melanchra persicariae</i>		Paleartic	Woody
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Mythimna separata</i>	Yes	Indo-Malaya	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Mythimna unipuncta</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Panolis flammea</i>	Yes	Paleartic	Woody
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Peridroma margaritosa</i>	Yes	Cosmopolitan	Herb/Woody
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Peridroma morpatoria</i>	Yes	Indo-Malaya	Woody
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Scotogramma trifolii</i>	Yes	Cosmopolitan	Herb/Woody
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Spodoptera albula</i>	Yes	Neotropical	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Spodoptera androgea</i>	Yes	Neotropical	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Spodoptera exempta</i>	Yes	Pantropical	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Spodoptera exigua</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Spodoptera frugiperda</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Spodoptera littoralis</i>	Yes	Afrotropical	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Spodoptera litura</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Spodoptera terricola</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Noctuinae	<i>Xestia c-nigrum</i>	Yes	Holarctic	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Plusiinae	<i>Plusia acuta</i>	Yes	Pantropical	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Plusiinae	<i>Pseudoplusia includens</i>	Yes	Nearctic	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Plusiinae	<i>Rachiplusia nu</i>	Yes	Neotropical	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Plusiinae	<i>Rachiplusia ou</i>	Yes	Nearctic	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Plusiinae	<i>Thysanoplusia orichalcea</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Plusiinae	<i>Trichoplusia ni</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Noctuoidea	Noctuidae	Plusiinae	<i>Trichoplusia orichalcea</i>	Yes	Pantropical	Herbaceous
Lepidoptera	Noctuoidea	Notodontidae	Phalerinae	<i>Phalera bucephala</i>		Paleartic	Woody
Lepidoptera	Noctuoidea	Notodontidae	Dioptinae	<i>Phryganidia californica</i>	Yes	Nearctic	Woody
Lepidoptera	Papilionoidea	Nymphalidae	Heliconiinae	<i>Agraulis vanillae</i>		Americas	Herbaceous
Lepidoptera	Papilionoidea	Nymphalidae	Heliconiinae	<i>Dione junio</i>		Neotropical	Herbaceous
Lepidoptera	Papilionoidea	Nymphalidae	Heliconiinae	<i>Heliconius erato</i>		Neotropical	Herbaceous
Lepidoptera	Papilionoidea	Nymphalidae	Nymphalinae	<i>Aglaia urticae</i>		Paleartic	Herbaceous
Lepidoptera	Papilionoidea	Nymphalidae	Nymphalinae	<i>Junonia coenia</i>		Nearctic	Herbaceous
Lepidoptera	Papilionoidea	Nymphalidae	Nymphalinae	<i>Nymphalis io</i>		Paleartic	Herbaceous
Lepidoptera	Papilionoidea	Nymphalidae	Nymphalinae	<i>Polygonia c-album</i>		Paleartic	Woody
Lepidoptera	Papilionoidea	Nymphalidae	Nymphalinae	<i>Vanessa atalanta</i>		Cosmopolitan	Herbaceous
Lepidoptera	Papilionoidea	Nymphalidae	Nymphalinae	<i>Vanessa cardui</i>		Cosmopolitan	Herbaceous
Lepidoptera	Papilionoidea	Pieridae	Pierinae	<i>Aporia crataegi</i>		Paleartic	Woody
Lepidoptera	Papilionoidea	Pieridae	Pierinae	<i>Neophasia sp</i>		Nearctic	Woody
Lepidoptera	Papilionoidea	Pieridae	Pierinae	<i>Pieris brassicae</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Papilionoidea	Pieridae	Pierinae	<i>Pieris rapae</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Papilionoidea	Pieridae	Coliadinae	<i>Catopsilia pomona</i>		Indo-Malaya	Woody
Lepidoptera	Papilionoidea	Hesperiidae	Pyrginae	<i>Urbanus proteus</i>	Yes	Neotropical	Herbaceous
Lepidoptera	Pyraloidea	Crambidae	Pyraustinae	<i>Cnaphalocrocis medinalis</i>		Indo-Malaya	Herbaceous
Lepidoptera	Pyraloidea	Crambidae	Spilomelinae	<i>Condylorrhiza vestigialis</i>		Americas	Woody
Lepidoptera	Pyraloidea	Crambidae	Spilomelinae	<i>Diaphania pulverulentalis</i>		Indo-Malaya	Woody
Lepidoptera	Pyraloidea	Crambidae	Spilomelinae	<i>Maruca vitrata</i>		Pantropical	Woody
Lepidoptera	Pyraloidea	Crambidae	Crambinae	<i>Diatraea saccharalis</i>	Yes	Neotropical	Herbaceous
Lepidoptera	Pyraloidea	Pyalidae	Phycitinae	<i>Cadra cautella</i>		Cosmopolitan	Woody
Lepidoptera	Pyraloidea	Pyalidae	Phycitinae	<i>Plodia interpunctella</i>	Yes	Cosmopolitan	Herb/Woody
Lepidoptera	Pyraloidea	Pyalidae	Galleriinae	<i>Galleria mellonella</i>	Yes	Cosmopolitan	Detritophagous
Lepidoptera	Tineoidea	Psychidae	Psychidae	<i>Kotochalia junodi</i>		Afrotropical	Woody

Lepidoptera	Tineoidea	Psychidae	Psychidae	<i>Mahasena corbetti</i>		Indo-Malaya	Woody
Lepidoptera	Tineoidea	Tineidae	Tineinae	<i>Tineola bisselliella</i>	Yes	Cosmopolitan	Detritophagous
Lepidoptera	Tortricoidea	Tortricidae	Olethreutinae	<i>Cryptophlebia leucotreta</i>		Paleotropical	Woody
Lepidoptera	Tortricoidea	Tortricidae	Olethreutinae	<i>Cydia pomonella</i>	Yes	Cosmopolitan	Woody
Lepidoptera	Tortricoidea	Tortricidae	Olethreutinae	<i>Epinotia aporema</i>	Yes	Neotropical	Woody
Lepidoptera	Tortricoidea	Tortricidae	Olethreutinae	<i>Epinotia granitalis</i>		Paleartic	Woody
Lepidoptera	Tortricoidea	Tortricidae	Tortricinae	<i>Adoxophyes honmai</i>	Yes	Paleartic	Woody
Lepidoptera	Tortricoidea	Tortricidae	Tortricinae	<i>Adoxophyes orana</i>	Yes	Paleartic	Woody
Lepidoptera	Tortricoidea	Tortricidae	Tortricinae	<i>Amelia pallorana</i>	Yes	Nearctic	Herbaceous
Lepidoptera	Tortricoidea	Tortricidae	Tortricinae	<i>Amorbia cuneacapsa</i>	Yes	Nearctic	Woody
Lepidoptera	Tortricoidea	Tortricidae	Tortricinae	<i>Archips cerasivoranus</i>	Yes	Nearctic	Woody
Lepidoptera	Tortricoidea	Tortricidae	Tortricinae	<i>Archips rosanus</i>	Yes	Holarctic	Woody
Lepidoptera	Tortricoidea	Tortricidae	Tortricinae	<i>Choristoneura fumiferana</i>	Yes	Nearctic	Woody
Lepidoptera	Tortricoidea	Tortricidae	Tortricinae	<i>Choristoneura murinana</i>		Holarctic	Woody
Lepidoptera	Tortricoidea	Tortricidae	Tortricinae	<i>Choristoneura occidentalis</i>	Yes	Nearctic	Woody
Lepidoptera	Tortricoidea	Tortricidae	Tortricinae	<i>Choristoneura rosaceana</i>		Cosmopolitan	Woody
Lepidoptera	Tortricoidea	Tortricidae	Tortricinae	<i>Choristoneura viridis</i>		Nearctic	Woody
Lepidoptera	Tortricoidea	Tortricidae	Tortricinae	<i>Cnephasia longana</i>		Cosmopolitan	Herbaceous
Lepidoptera	Tortricoidea	Tortricidae	Tortricinae	<i>Epiphyas postvittana</i>		Australasia	Herb/Woody
Lepidoptera	Tortricoidea	Tortricidae	Tortricinae	<i>Homona coffearia</i>		Indo-Malaya	Woody
Lepidoptera	Tortricoidea	Tortricidae	Tortricinae	<i>Pandemis limitata</i>	Yes	Nearctic	Woody
Lepidoptera	Yponomeutoidea	Yponomeutidae	Plutellinae	<i>Plutella maculipennis</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Yponomeutoidea	Yponomeutidae	Plutellinae	<i>Plutella xylostella</i>	Yes	Cosmopolitan	Herbaceous
Lepidoptera	Zygaenoidea	Zygaenidae	Procrinae	<i>Harrisina brillians</i>		Nearctic	Woody
Lepidoptera	Zygaenoidea	Limacodidae	Limacodinae	<i>Iragoides fasciata</i>		Paleartic	Woody
Lepidoptera	Zygaenoidea	Limacodidae	Limacodinae	<i>Macroleptra nararia</i>		Indo-Malaya	Woody
Lepidoptera	Zygaenoidea	Limacodidae	Limacodinae	<i>Oxyplax ochracea</i>	Yes	Paleartic	Woody