

New and re-annotated immunity gene-products

Newly Annotated Gene-products	NCBI 103 LOC
serine protease grass-like	LOC120850860
serine protease grass-like	LOC121835676
uncharacterized LOC115315312	LOC115315312
toll-interacting protein-like	LOC121837696
toll-interacting protein	LOC8027505
cactin	LOC120841015
baculoviral IAP repeat-containing protein 7-B-like	LOC120849040
baculoviral IAP repeat-containing protein 8-like	LOC120849037
baculoviral IAP repeat-containing protein 7-B-like	LOC120849036
baculoviral IAP repeat-containing protein 8-like	LOC120849028
baculoviral IAP repeat-containing protein 8-like	LOC121837541
baculoviral IAP repeat-containing protein 7-B-like	LOC121837540
baculoviral IAP repeat-containing protein 8-like	LOC121833990
baculoviral IAP repeat-containing protein 8-like	LOC121833991
baculoviral IAP repeat-containing protein 7-B-like	LOC121834194
baculoviral IAP repeat-containing protein 7-B-like	LOC121834198
baculoviral IAP repeat-containing protein 7-B-like	LOC120841289
baculoviral IAP repeat-containing protein 7-B-like	LOC120844842
baculoviral IAP repeat-containing protein 3-like	LOC120846883
death-associated inhibitor of apoptosis 1-like	LOC120846888
baculoviral IAP repeat-containing protein 3-like	LOC120847346
putative inhibitor of apoptosis	LOC120847442
inhibitor of apoptosis protein-like	LOC120847499
baculoviral IAP repeat-containing protein 8-like	LOC120838773
baculoviral IAP repeat-containing protein 8-like	LOC120838771
baculoviral IAP repeat-containing protein 8-like	LOC120838770
baculoviral IAP repeat-containing protein 8	LOC120838769
death-associated inhibitor of apoptosis 1-like	LOC121834197
protein CASP-like	LOC121835916
caspase-7	LOC120841512
E3 SUMO-protein ligase PIAS3-like	LOC115315839
E3 SUMO-protein ligase PIAS3-like	LOC121834651
E3 SUMO-protein ligase PIAS1-like	LOC115310190
E3 SUMO-protein ligase PIAS3-like	LOC120849940
E3 SUMO-protein ligase PIAS1-like	LOC121837921
E3 SUMO-protein ligase PIAS2-like	LOC121835202
E3 SUMO-protein ligase PIAS2-like	LOC121835201
endoribonuclease Dicer homolog 3a	LOC115321698
defensin	LOC120836826
defensin-like	LOC120836827
defensin-like	LOC120836830
defensin-like	LOC120838639
defensin-like	LOC120838830
defensin	LOC8051614
defensin-like	LOC121838061
4 kDa defensin	LOC120838637

4 kDa defensin		LOC120843581	
defensin-like		LOC120843593	
4 kDa defensin-like		LOC120843594	
defensin-like		LOC120843595	
defensin-like		LOC121047420	
defensin		LOC121047423	
defensin-like		LOC121837977	
defensin-like		LOC121838186	
4 kDa defensin-like		LOC120843578	
antimicrobial peptide microplusin-like		LOC115315980	
antimicrobial peptide microplusin-like		LOC121837403	
ficolin-3		LOC120841486	
probable GH family 25 lysozyme 3		LOC120842837	
lysozyme c-1-like		LOC121836734	
lysozyme 2-like		LOC121837938	
venom factor		LOC8032842	
Re-annotated Gene-products	NCBI 103 LOC	VB49 Wikel	NCBI ISE6
<i>Toll Pathway</i>			
peptidoglycan-recognition protein SC2-like; peptidoglycan-recognition protein SC2-like	LOC8050404; LOC121832882	ISCW004389	
peptidoglycan-recognition protein SC2	LOC8038998	ISCW022212	
trypsin-1	LOC8027801	ISCW017406	
trypsin-7-like; plasma kallikrein-like	LOC121834646; LOC121834547	ISCW012715	
plasminogen-like	LOC120849696	ISCW002148	
trypsin-1-like	LOC120842436	ISCW009051	
prostasin-like	LOC120839314	ISCW000363	
trypsin-1-like	LOC8027136	ISCW002999	
serine proteinase stubble	LOC8027684	ISCW002695	
trypsin-7-like; plasma kallikrein-like	LOC121834646; LOC121834547	ISCW007529	
trypsin-1-like; trypsin-1-like	LOC121834546; LOC120849697	ISCW012782	
plasma kallikrein-like	LOC121048479	ISCW011978	
enteropeptidase (<i>annotated in NCBI ISE6</i>)	LOC8038590	N/A	N/A
protein spaetzle 4 (<i>annotated in NCBI ISE6</i>)	LOC115320196	N/A	N/A
protein spaetzle-like	LOC8029552	ISCW004376	ISCI004376
protein spaetzle 5	LOC8040414	ISCW022568	
uncharacterized LOC8040416	LOC8040416	ISCW022569	
uncharacterized LOC8039702	LOC8039702	ISCW022732	
uncharacterized LOC115323628	LOC115323628	ISCW002691	
uncharacterized LOC115323628	LOC115323628	ISCW024377	
spaetzle 3	LOC8052749	ISCW018887	
uncharacterized LOC120847808	LOC120847808	ISCW022034	

uncharacterized LOC121833639; neurotrophin 1-like	LOC121833639; LOC8034948	ISCW008795	
uncharacterized protein DDB_G0271670	LOC8025801	ISCW001938	
toll-like receptor 2	LOC115316928	ISCW018363	
toll-like receptor Tollo	LOC8038298	ISCW022740	
protein toll	LOC120838969	ISCW007727	
protein toll	LOC8028493	ISCW018193	
toll-like receptor Tollo	LOC8036317	ISCW020989	
protein toll	LOC120838967	ISCW007726	
toll-like receptor Tollo	LOC8031677	ISCW007724	
protein toll	LOC8036039	ISCW017724	
platelet glycoprotein V	LOC8035423	ISCW020221	
protein toll-like	LOC8030819	ISCW006897	
toll-like receptor 9	LOC8037173	ISCW010688	ISCI010688
toll-like receptor 8	LOC8031730	ISCW019331	ISCI019331
toll-like receptor 2 type-2	LOC8030058	ISCW017802	ISCI017802
toll-like receptor 9	LOC8026298	ISCW024703 (<50% covered)	ISCI024703 (<50% covered)
leucine-rich repeat-containing protein 1 (<i>annotated in NCBI ISE6</i>)	LOC115311016	N/A	N/A
protein artichoke	LOC8031633	ISCW008289	
leucine-rich repeat-containing protein 15	LOC8050955	ISCW004495	
evolutionarily conserved signaling intermediate in Toll pathway, mitochondrial	LOC8033432	ISCW009512	
NAD(+) hydrolase sarm1	LOC8035815	ISCW010552	ISCI010552
myeloid differentiation primary response protein MyD88-B	LOC115328311	ISCW008802	
probable inactive leucine-rich repeat receptor-like protein kinase At3g03770	LOC8024358	ISCW001463	
NF-kappa-B inhibitor epsilon (<i>annotated in NCBI ISE6</i>)	LOC115311683	N/A	N/A
inhibitor of nuclear factor kappa-B kinase subunit epsilon	LOC8034689	ISCW020049	
interleukin-1 receptor-associated kinase 4	LOC8031220	ISCW007160	
cactin	LOC8030125	ISCW017768	
NF-kappa-B inhibitor epsilon	LOC8032333	ISCW019520	
B-cell lymphoma 3 protein	LOC8031320	ISCW007030	
embryonic polarity protein dorsal	LOC8023194	ISCW000140	
IMD Pathway			
ubiquitin-conjugating enzyme E2-17 kDa	LOC8052988	ISCW018551	
ubiquitin-conjugating enzyme E2-24 kDa	LOC8034367	ISCW020158	
ubiquitin-conjugating enzyme E2 variant 2	LOC8051847	ISCW019147	
putative inhibitor of apoptosis	LOC8037010	ISCW010694	

putative inhibitor of apoptosis	LOC8044139	ISCW015499	
baculoviral IAP repeat-containing protein 7-B	LOC115325334	ISCW003136	
baculoviral IAP repeat-containing protein 5	LOC8039881	ISCW012508 (<50% covered)	ISCI012508 (<50% covered)
baculoviral IAP repeat-containing protein 3-like (<i>annotated in NCBI ISE6</i>)	LOC115319208	N/A	N/A
phosducin-like protein 3	LOC8041998	ISCW014857	ISCI014857
apoptosis inhibitor 5	LOC8050980	ISCW002567	ISCI002567
TP53-regulated inhibitor of apoptosis 1	LOC120850677	ISCW006194	ISCI006194
E3 ubiquitin-protein ligase XIAP	LOC8050569	ISCW004187	
ubiquitin-conjugating enzyme E2 N	LOC8053243	ISCW006743	
uncharacterized LOC8027227	LOC8027227	ISCW017523	
FAS-associated factor 1	LOC8024488	ISCW015648	
caspase-1-like	LOC120841358	ISCW003039	
caspase-7	LOC120835965	ISCW022545	
uncharacterized LOC8025111	LOC8025111	ISCW000886	N/A
E3 ubiquitin-protein ligase SH3RF3	LOC8044064	ISCW015192	
mitogen-activated protein kinase kinase 7	LOC8042426	ISCW023496	
TGF-beta-activated kinase 1 and MAP3K7-binding protein 2	LOC8034022	ISCW009346	
nuclear factor NF-kappa-B p110 subunit	LOC8054090	ISCW018935	
serine/threonine-protein kinase NLK	LOC8028864	ISCW003529	
inhibitor of nuclear factor kappa-B kinase subunit alpha	LOC8027946	ISCW002130	
homeobox protein CDX-2	LOC8034637	ISCW008954	
homeobox protein CDX-2-like	LOC8025446	ISCW000973	ISCI000973
JAK-STAT Pathway			
uncharacterized LOC8039343	LOC8039343	ISCW013496	
uncharacterized LOC8039342	LOC8039342	ISCW013495	
uncharacterized LOC8025354	LOC8025354	ISCW001458	
fibronectin	LOC8031738	ISCW008121	
tyrosine-protein phosphatase 99A	LOC8027114	ISCW016699	
tyrosine-protein kinase JAK2	LOC8024630	ISCW016158	
signal transducer and activator of transcription 5A	LOC8053058	ISCW005692	
suppressor of cytokine signaling 2	LOC115311416	ISCW019435	
uncharacterized LOC8042509	LOC8042509	ISCW013972	
suppressor of cytokine signaling 5	LOC8029160	ISCW004481	
uncharacterized LOC8024171	LOC8024171	ISCW015921 (<50% covered)	ISCI015921 (<50% covered)
SPRY domain-containing SOCS box protein 3-like	LOC8052476	ISCW005746 (<50% covered)	ISCI005746 (<50% covered)

SPRY domain-containing SOCS box protein 3-like	LOC8038030	ISCW011349 (<50% covered)	ISCI011349 (<50% covered)
E3 SUMO-protein ligase PIAS2	LOC8052466	ISCW005295	
E3 SUMO-protein ligase PIAS3-like	LOC8024510	ISCW015032	ISCI015032
E3 SUMO-protein ligase PIAS2	LOC8031722	ISCW019408	ISCI019408 (<50% covered)
Anti-Viral Pathway			
endoribonuclease Dicer; endoribonuclease Dicer	LOC120848261; LOC8025114	ISCW000889	
endoribonuclease Dcr-1	LOC8025115	ISCW000890	
protein Dicer	LOC8039763	ISCW011963	ISCI011963
protein argonaute-2; protein argonaute-2-like	LOC8039115; LOC121836818	ISCW013378	
protein argonaute-2	LOC8023472	ISCW015916	
protein argonaute-2-like	LOC8037273	ISCW011768	
protein argonaute-2	LOC8038887	ISCW022696	
protein argonaute-2	LOC8037792	ISCW021130	
STING ER exit protein (<i>annotated in NCBI ISE6</i>)	LOC8027969	N/A	N/A
fragile X mental retardation syndrome-related protein 1	LOC120840895	ISCW002912	
plasminogen activator inhibitor 1 RNA-binding protein	LOC8024167	ISCW000538	
staphylococcal nuclease domain-containing protein 1	LOC8041829	ISCW014289	
putative helicase MOV-10	LOC8030225	ISCW019555	
uncharacterized LOC115329414; piwi-like protein 1	LOC115329414; LOC121832856	ISCW004464	
piwi-like protein 1	LOC8036201	ISCW011373	
piwi-like protein 1	LOC115324963	ISCW012408	
probable ATP-dependent RNA helicase DDX17	LOC8026786	ISCW002701	
probable ATP-dependent RNA helicase DDX17	LOC8026783	ISCW002703	
ATP-dependent RNA helicase dbp2	LOC8033189	ISCW009472	
dual specificity protein kinase CLK2	LOC8053378	ISCW005620	
Additional Immune Related Gene-products			
akirin-2	LOC8041162	ISCW023283	
ankyrin repeat and death domain-containing protein 1A	LOC8051406	ISCW018861	
4 kDa defensin-like	LOC120835929	ISCW011162	
4 kDa defensin	LOC120843579	ISCW005926	
4 kDa defensin	LOC120843583	ISCW005928	
4 kDa defensin	LOC115319401	ISCW011162	ISCI011162

4 kDa defensin-like	LOC120837543	ISCW005927 (Matched w/ multiple 103 LOC)	ISCI005927
defensin-like	LOC8052291	ISCW005928 (Matched w/ multiple 103 LOC)	ISCI005928
uncharacterized LOC8050582	LOC8050582	ISCW004019	
antimicrobial peptide microplusin	LOC8032482	ISCW002113	
antimicrobial peptide microplusin-like (annotated in NCBI ISE6)	LOC115315978	N/A	N/A
antimicrobial peptide microplusin-like (annotated in NCBI ISE6)	LOC115316000	N/A	N/A
antimicrobial peptide microplusin-like	LOC115317332	ISCW007490 (Matched w/ two 103 LOC)	ISCI007490
antimicrobial peptide microplusin-like	LOC115308170	ISCW002011	ISCI002011
antimicrobial peptide microplusin-like	LOC8032630	ISCW002011	ISCI002011
uncharacterized LOC8040697	LOC8040697	ISCW013357	ISCI013357
antimicrobial peptide microplusin	LOC8040700	ISCW013355 (<50% covered)	ISCI013355 (<50% covered)
antimicrobial peptide microplusin	LOC8043575	ISCW023901	ISCI023901
antimicrobial peptide microplusin	LOC8043576	N/A	ISCI023902
antimicrobial peptide microplusin	LOC8043577	ISCW023903	ISCI023902
antimicrobial peptide microplusin-like	LOC8050583	ISCW004018	ISCW004018
caspase-1-like	LOC120841358	ISCW003039	
caspase-1	LOC8040312	ISCW013172	
caspase-3	LOC115330648	ISCW015329	
caspase-7	LOC120835965	ISCW022545	
caspase-3	LOC8041412	ISCW014750	
defensin-like	LOC115316414	ISCW024381; ISCW024015	
defensin	LOC120843582	ISCW016747	
hemocyte defensin Cg-Defh1-like	LOC115332006	ISCW023545	
4 kDa defensin-like	LOC120843580	ISCW005927	
dual oxidase	LOC8031895	ISCW007865	
phospholipase A2 inhibitor beta	LOC120841881	ISCW021005	
leucine-rich repeat neuronal protein 1- like	LOC121834826	ISCW024521	
leucine-rich repeats and immunoglobulin-like domains protein 3	LOC8039935	ISCW024389	
techylectin-5A-like	LOC120836896	ISCW002664	
techylectin-5A	LOC8042596	ISCW013746	
techylectin-5A	LOC120848223	ISCW024686	
techylectin-5A	LOC8036124	ISCW013746	ISCI013746
angiopoietin-related protein 7	LOC8038631	ISCW022063	
fibrinogen C domain-containing protein 1-like	LOC120837941	ISCW009412	

angiopoietin-related protein 7-like	LOC8038163	ISCW024309	
ficolin-2	LOC120841010	ISCW001478	
lysozyme-like	LOC8023210	ISCW001646	
lysozyme 2	LOC8034924	ISCW020680	
lysozyme 2	LOC8026886	ISCW017129	
lysozyme-like protein 1 (<i>annotated in NCBI ISE6</i>)	LOC115328740	N/A	N/A
leucine-rich repeat extensin-like protein 1	LOC8053221	ISCW018431	
lysozyme c-1-like	LOC8023211	ISCW001645	
NADPH oxidase 5	LOC8028381	ISCW002630	
peptidoglycan-recognition protein 2; peptidoglycan-recognition protein SC2-like	LOC8050403; LOC121836976	ISCW024175	
alpha-2-macroglobulin-like protein 1	LOC8031367	ISCW019887	
CD109 antigen	LOC8028085	ISCW003089	
CD109 antigen	LOC8030719	ISCW007141	
alpha-2-macroglobulin-like protein 1	LOC8043417	ISCW023777	
alpha-2-macroglobulin	LOC8029268	ISCW003923	
alpha-2-macroglobulin receptor-associated protein	LOC8037864	ISCW010822	ISC1010822
CD109 antigen	LOC8034452	ISCW020822	
FAS-associated factor 2	LOC8039337	ISCW011870	
Down syndrome cell adhesion molecule-like protein Dscam2	LOC8030311	ISCW003295	
Down syndrome cell adhesion molecule-like protein Dscam2	LOC121047054	ISCW016844	
lysosome membrane protein 2	LOC8028186	ISCW003371	
scavenger receptor class B member 1; scavenger receptor class B member 1	LOC8035636; LOC120836179	ISCW010934	
scavenger receptor class B member 1; scavenger receptor class B member 1	LOC8027712; LOC120838391	ISCW002412	
leucine-rich repeat-containing protein 4C	LOC8024576	ISCW016292	
leucine-rich repeat-containing protein 4B	LOC8037764	ISCW021508	
leucine-rich repeat and immunoglobulin-like domain-containing nogo receptor-interacting protein 2	LOC8039792	ISCW022144	
leucine-rich repeat, immunoglobulin-like domain and transmembrane domain-containing protein 3	LOC8052780	ISCW018006	
uncharacterized LOC8040272	LOC8040272	ISCW022120	
chondroadherin-like protein	LOC8052214	ISCW005558	
protein slit	LOC8054077	ISCW018651	
chaoptin	LOC8040083	ISCW012040	