Arefin, Table S1

Gene	Primer name	Sequence	Annealing temperature
Rack1	Rack1 fw Rack1 rev	CCC GTG ACA AGA CCC TGA T TAG TTG CCA TCG GAG GAG AG	50 °C
rp49	rp49 fw rp49 rev	CTT CAT CCG CCA CCA GTC GGC GAC GCA CTC TGT TGT	50 °C
IM3	IM3 fw IM3 rev	TTG GGT CTG CTG GCT CTG TTC AAC TGG CAT CCT TCA TTC	52 °C
Diptericin B	DiptB fw DiptB rev	CTA TTC ATT GGA CTG GCT TGT G GTC CAT TGG GGC TCT GC	54 °C
Drosomycin	Drs fw Drs rev	CCC TCT TCG CTG TCC TGA TTA GCA TCC TTC GCA CCA G	52 °C
Attacin A	AttA fw AttA rev	TGG TCA TGG TGC CTC TTT G GAT TGT GTC TGC CAT TGT TGA	54 °C
PGRP-SB1	SB1 fw SB1 rev	GGG TGC GGT GTC TGC TC TCA CCG GCC ACG ATA AAG	52 °C
GNBP-like	CG13422 fw CG13422 rev	CCA AGG CCA CCG TCA AG TCG CTC AGA TCG TCC ATT T	52 °C
Tep1	Tep2 fw Tep2 rev	GTC CTG CTC GCC CTT CTC TCA AAT GCC AAA ACT CTA TGT CA	52 °C
Tep2	Tep1 fw Tep1 rev	CGT TCT GCT GGC TTT CTT C ATA CTG GTC GTC CGT CTT GTC	52 °C
Spds	Spds fw Spds rev	GCG ATG GCC TGT GGT TT CAG CGC GTG TTT CAT TAG C	52 °C
Glutactin	Glt fw Glt rev	TAT CCG GTA CAA GAG CCA CAG TTT CGG GGA GAT TTT CGT T	54 °C
CG7607	CG7607 fw CG7607 rev	TAC ATA GCC GCC CAA AGA A AGC CAT GCA AAA GAA AGT GAT	52 °C
PGRP-LF	LF fw LF rev	CGC CAT CAT GTT TCA CTC AA GAC CAA TAA AGG CCA CGA CTA	52 °C

Arefin, Table S1B

VDRC lines

Array genes (fig.4)

No	Gene name	CG no	Transformant ID	Type	Off target	Viability	Inserted Chromosome	Larval fatbody expression	Induction level (microarray)
1	Attacin A	CG10146	9287	GD	1	viable	3	yes	Strongly induced
2	Attacin A	CG10146	50319	GD	2	viable	3	yes	Strongly induced
3	Attacin A	CG10146	50320	GD	2	viable	2	yes	Strongly induced
4	DiptericinB	CG10794	102607	KK	0	viable	2	yes	Strongly induced
5	DiptericinB	CG10794	28736	GD	1	viable	3	yes	Strongly induced
6	Drosomycin	CG10810	2703	GD	5	viable	2	yes	Strongly induced
7	GNBP like 3	CG13422	107358	KK	0	viable	2	yes	Strongly induced
8	GNBP like 3	CG13422	7545	GD	0	viable	3	yes	Strongly induced
9	IM2	CG18106	43372	GD	3	viable	2	yes	Strongly induced
10	IM3	CG16844	29214	GD	2	viable	1	yes	Strongly induced
11	IM18	CG10332	49651	GD	0	viable	3	yes	Moderate
12	Metchnikowin	CG8175	109740	KK	1	viable	2	yes	Strongly induced
13	PGRP-SB1	CG9681	101298	KK	0	viable	2	yes	Strongly induced
14	SPH93	CG6639	104307	KK	0	viable	2	yes	Moderate
15	Akap200	CG13388	102374	KK	0	viable	2	yes	2 fold (LogFC)
16	Akap200	CG13388	109996	KK	0	viable	2	yes	2 fold (LogFC)
17	Akap200	CG13388	5647	GD	0	viable	2	yes	2 fold (LogFC)
18	Starry night	CG11895	107993	KK	0	viable	2	Not available	Moderate
19	Starry night	CG11895	1665	GD	0	viable	3	Not available	Moderate
20	Starry night	CG11895	51382	GD	0	viable	2	Not available	Moderate
21	Argonaute 2	CG7439	100356	KK	0	viable	2	yes	no
22	Argonaute 2	CG7439	49473	GD	0	viable	2	yes	no
23	Argonaute 2	CG7439	51521	GD	0	viable	2	yes	no
24	Larval translu	CG32372	18977	GD	2	viable	3	yes	no
25	Wrinkled	CG5123	8269	GD	0	viable	3	no	no

Hemocytes enriched genes (fig. 6)

26	Lectin24DB	CG2958	105118	KK	0	viable	2		
27	Lectin24DB	CG2958	45294	GD	2	viable	3		
28	Lectin28C	CG7106	104201	KK	0	viable	2		
29	SPARC	CG6378	100566	KK	1	viable	2		
30	SPARC	CG6378	16677	GD	1	viable	2		
31	Eater	CG6124	4301	GD	0	viable	3		
32	dSR-C1	CG4099	49964	GD	0	viable	2		
33	Glutactin	CG9280	101918	KK	1	viable	2		
34	Glutactin	CG9280	15428	GD	1	viable	3		
35	Glutactin	CG9280	15429	GD	1	viable	2		
36	CG4250	CG4250	101949	KK	0	viable	2		

NIG lines (Fig.4)

37	GNBP like 3	CG13422	13422R-3		viable	3

Mutant lines (Fig.5)

Bloomington lines No	Gene name	CG no	Genotype	Stock no.	Type	Mutant type	Viability
38	Glutactin	CG9280		22539	Mutant	P-element ins	viable

From Bruno Lemaitre lab (Fig.5)

39	GNBP-3	CG5008	GNBP-3/TM6c		Mutant	lethal
40	PGRP-SA	CG11709	y, w, DD, Seml (PGRP-SA)		Mutant	viable
41	PGRP-LC	CG4432	PGRP-LC$^{\wedge E12D3}$		Mutant	viable
42	PGRP-LE	CG8995	y^{1} w^{67c23} PGRP-LE^{112}		Mutant	viable
43	PGRP-LF	CG4437	PGRP-LF^{200}		Mutant	lethal

From Dominique Ferrandon lab (Fig.5)

44	Tep2	CG7052	Tep2 (d11521)		Mutant	viable
45	Tep3	CG7068	Tep3 (d03976)		Mutant	viable
46	Tep4	CG10363	Tep4(EY04656)		Mutant	viable
47	Tep2,3				Double mu	FRT medited d viable

Reporter lines

48	Ddc-GFP		- 1.4 kb Ddc-GFP trnasgenic line was obtained from William McGinnis lab				
49	hml-GAL4;UAS-RFP		w1118 iso;+; hml-Gal4 UAS-RFP line was generated by recombining hml-Gal4 and UAS-RFP on 3rd chromosome				
50	vkg-GFP	CG16858		G00454	protein-trap	viable	obtained from Cooley lab (Flytrap)

Arefin, Table S3

Gene Name	Abbreviation	Probe Set	Nematodes (log2 FC)	Wasps (Code/FC)	Injection of G+ and G- bacteria (FC)	Pathogenic G- Bacteria (FC)	class
Immune induced molecule 3	IM3	1622893_at	8.99	7.858111968	12.05	4.1	A - all infections
elevated during infection	edin	1634366_at	8.76	13.28267974			C – shared EPN+wasps
Immune induced molecule 4	IM4	1626345_at	8.23	7.265109147	2.62		B - missing in pathogenic bacteria
Attacin-C	AttC	1641419_at	7.94	10.45256917	28.08	11.655	A - all infections
Immune induced molecule 1	IM1	1633053_at	7.87	2.870099541	26.73	2.685	A - all infections
IM2-like	CG15065	1631660_at	7.81	14	9.4	2.365	A - all infections
Defensin	Def	1634271_at	7.81		2.86		E - shared EPN+bac. injection
Diptericin B	DptB	1638235_at	7.29	4.04834199	9.270157347	9.95	A - all infections
GNBP-like	CG13422	1627271_at	7.1	2	9.6		B - missing in pathogenic bacteria
Dmel_CG15067	CG15067	1625174_at	6.95	2	10.46		B - missing in pathogenic bacteria
Dmel_CG33470	CG33470	1639019_s_at	6.93				D - EPN specific
Immune induced molecule 2	IM2	1640360_at	6.84	2.091029944	7.62		B - missing in pathogenic bacteria
Immune induced molecule 23	IM23	1629530_at	6.75	2	13.12		B - missing in pathogenic bacteria
Dmel_CG16836	CG16836	1623669_at	6.59	2	7.259899432		B - missing in pathogenic bacteria
Drosomycin	Drs	1635189_at	6.02	3.318574591	11.7879722	5.48	A - all infections
Immune induced molecule 10	IM10	1626319_a_at	5.95	14	23.24764177	2.62	A - all infections
Metchnikowin	Mtk	1627613_at	5.5	9.252935299	37.81	13.865	A - all infections
Attacin-A	AttA	1627551_s_at	5.46	18.76399116	2.319343217		B - missing in pathogenic bacteria
Attacin-A	AttA	1625124_at	5.44	13.85899334	52.02091148	18.65	A - all infections
Dmel_CG30026	CG30026	1631370_at	5.29				D - EPN specific
Peptidoglycan recognition protein SB1	PGRP-SB1	1636490_at	5.27	10.20658452	3.54	5.44	A - all infections
Dmel_CG15068	CG15068	1635060_at	5.15	10.81605612			C – shared EPN+wasps
Cecropin C	CecC	1632719_at	5		1.69	1.98	F - missing in wasp infection
Dmel_CG4757	CG4757	1638021_at	4.66				D - EPN specific
Dmel_CG33462	CG33462	1640757_at	4.49	12	3.7		B - missing in pathogenic bacteria
Cecropin B	CecB	1626530_at	4.45	4.357954545	1.83		B - missing in pathogenic bacteria
Attacin-D	AttD	1631475_at	3.84		2.03	3.805	F - missing in wasp infection
Dmel_CG16775	CG16775	1623884_at	3.57			5.935	G – shared EPN+pathogenic G- bacteria
Dmel_CG42335	CG42335	1634477_at	3.53			1.54	G – shared EPN+pathogenic G- bacteria
Dmel_CG18067	CG18067	1640144_at	3.28	13	7.103805806	2.255	A - all infections
Dmel_CG18107	CG18107	1638772_at	2.95	3.338274045	2.63		B - missing in pathogenic bacteria
gp150-like	CG14762	1632809_at	2.95				D - EPN specific
Dmel_CG4716	CG4716	1629046_a_at	2.94	8			C – shared EPN+wasps
Dmel_CG30029	CR30029	1636492_at	2.92			1.68	G – shared EPN+pathogenic G- bacteria
accord	*accord*	1634633_s_at	2.92				D - EPN specific
Dmel_CG2217	CG2217	1636293_at	2.87	4.52221851			C – shared EPN+wasps
Fibrinogen-like	CG5550	1629201_at	2.81	2.364948282	2.32	13.7	A - all infections
Dmel_CG4716	CG4716	1628963_at	2.7		2.09	2.7	F - missing in wasp infection
Thioester-containing protein 1	Tep1	1637734_at	2.66	12			C – shared EPN+wasps
Zn finger homeodomain 1	zfh1	1628262_a_at	2.54				D - EPN specific
Dmel_CG6639	CG6639	1625698_at	2.47	12	4.81	2.16	A - all infections
Dmel_CG42232	CG42232	1636205_at	2.47				D - EPN specific
Chronologically inappropriate morphogenesis	*chinmo*	1629484_s_at	2.45				D - EPN specific
Mucin 26B	Muc26B	1632017_at	2.44		1.638986293	2.075	F - missing in wasp infection
Mucin 96D	*Muc96D*	1636058_at	2.44				D - EPN specific
polychaetoid	pyd	1637322_at	2.4	0.653075935			C – shared EPN+wasps
Mucin 96D	*Muc96D*	1635733_x_at	2.4				D - EPN specific
Insulin-like receptor	InR	1629141_at	2.35				D - EPN specific
starry night	stan	1626087_at	2.32				D - EPN specific
Dmel_CG8160	CG8160	1638648_at	2.31	7.75063567	7.6	2.98	A - all infections
zye	CG5847	1623710_at	2.31	1.162055336			C – shared EPN+wasps
Beta amyloid protein precursor-like	Appl	1624033_at	2.31	0.797154497			C – shared EPN+wasps
Transposon.63		1632295_s_at	2.31				D - EPN specific
Dmel_CG14695	CG14695	1639704_at	2.29	1.394326241		1.9	H - missing in bac. Injection
Dmel_CG13482	CG13482	1636798_at	2.22		9.751731283	6.7	F - missing in wasp infection
NK7.1	CG8524	1631303_s_at	2.22				D - EPN specific
anachronism	ana	1630502_at	2.21				D - EPN specific
no receptor potential A	norpA	1636576_s_at	2.21				D - EPN specific
Dmel_CG11893	CG11893	1635512_at	2.19				D - EPN specific
Chronologically inappropriate morphogenesis	*chinmo*	1628005_at	2.16				D - EPN specific
moody	CG4322	1633112_at	2.14				D - EPN specific
Dmel_CG12236	CG12236	1624189_at	2.13				D - EPN specific
grappa	*gpp*	1638708_s_at	2.12				D - EPN specific
DISCO Interacting Protein 1	DIP1	1624215_s_at	2.09				D - EPN specific
anon-fast-evolving-1H7	CR42862	1625672_s_at	2.08				D - EPN specific
klumpfuss	klu	1629347_at	2.08				D - EPN specific
Dmel_CG6279		1638969_at	2.07				D - EPN specific
Dmel_CG13461	CG13461	1635959_at	2.06		2.274807593		E - shared EPN+bac. injection
anon-fast-evolving-1H7	CG32477	1640472_at	2.05		1.68	1.885	F - missing in wasp infection
wech	CG42396	1639785_s_at	2.04	0.8495051			C – shared EPN+wasps
Neurofibromin 1	*Nf1*	1625048_at	2.03				D - EPN specific
Mucin 68Ca	Muc68Ca	1638341_s_at	2.03				D - EPN specific
Muscle-specific protein 300	*Msp-300*	1632945_at	2.02				D - EPN specific
Neurofibromin 1	*Nf1*	1634083_at	2.02				D - EPN specific
Dmel_CG30069	CG30069	1635730_at	2.02				D - EPN specific
Odorant-binding protein 49a	Obp49a	1624932_at	2.01				D - EPN specific
polyA-binding protein interacting protein 2	Paip2	1628632_at	2.01				D - EPN specific
Dmel_CG8388	CG8388	1627323_at	2				D - EPN specific
Thioester-containing protein 2	Tep2	1630067_a_at	1.99	7.195665353	4.089814116		B - missing in pathogenic bacteria
SRPK	SRPK	1632130_s_at	1.98				D - EPN specific
IGF-II mRNA-binding protein	Imp	1623455_s_at	1.97				D - EPN specific
headcase	hdc	1629307_s_at	1.96	0.594499033			C – shared EPN+wasps
twin of eyeless	toy	1633512_at	1.96				D - EPN specific
Dmel_CG42335	CG42335	1635601_at	1.95			1.54	G – shared EPN+pathogenic G- bacteria
Dmel_CG12071	CG12071	1624143_a_at	1.95				D - EPN specific
Fasciclin 1	Fas1	1624183_a_at	1.95				D - EPN specific
Cenp-C	Cenp-C	1629217_at	1.94				D - EPN specific
Bruce	CG6303	1634454_at	1.93	0.954526709			C – shared EPN+wasps
Transposon.17		1624819_s_at	1.93				D - EPN specific
cable	Cbl	1635580_at	1.93				D - EPN specific
Dmel_CG16772	CG16772	1631691_at	1.92		2.76		E - shared EPN+bac. injection
Dmel_CG14478	CG14478	1638359_s_at	1.92				D - EPN specific
Dmel_CG13323	CG13323	1624587_at	1.91		7.212604808	2.095	F - missing in wasp infection
grappa	*gpp*	1627796_s_at	1.89				D - EPN specific
Mucin 68Ca	Muc68Ca	1631700_at	1.89				D - EPN specific
Dmel_CG42342	CG42342	1631471_at	1.88				D - EPN specific
pericentrin-like	cp309	1634009_at	1.88				D - EPN specific
Kinesin heavy chain 73	Khc-73	1627136_at	1.87				D - EPN specific
Elongase 68α	Elo68α	1635229_at	1.87				D - EPN specific
LD07388P/CAPRICIOUS	LD07388	1634920_at	1.86				D - EPN specific
Dmel_CG16711	CG16711	1624565_a_at	1.85	2.467849224			C – shared EPN+wasps
derailed	drl	1624297_at	1.85				D - EPN specific
Muscle-specific protein 300	*Msp-300*	1627250_at	1.85				D - EPN specific
Tie-like receptor tyrosine kinase	Tie	1629129_at	1.85				D - EPN specific
Dmel_CG10332/Immune induced molecule 18	CG10332/IM18	1622952_at	1.83				D - EPN specific
Relish	Rel	1627376_at	1.82	4	3.60014622	3.415	A - all infections
leak	lea	1636905_at	1.82	0.943275096			C – shared EPN+wasps
Dmel_CG10911	CG10911	1624342_at	1.82			2.3	G – shared EPN+pathogenic G- bacteria
Peptidoglycan recognition protein LF	PGRP-LF	1633145_at	1.8				D - EPN specific
KP78b	KP78b	1639894_at	1.8				D - EPN specific
Dmel_CG34383	CG34383	1625511_at	1.79				D - EPN specific
lethal (3) neo38	l(3)neo38	1640598_s_at	1.78				D - EPN specific
Dmel_CG10077	CG10077	1638060_at	1.77				D - EPN specific
armitage	armi	1623907_at	1.76				D - EPN specific
dumpy	dp	1634075_at	1.76				D - EPN specific

Cyclin T	**CycT**	1637897_at	**1.75**	0.716867073			C – shared EPN+wasps
Dmel_CG9821	**CG9821**	1634992_s_at	**1.74**				D - EPN specific
Darkener of apricot	**Doa**	1640892_a_at	**1.73**				D - EPN specific
Distal-less	**Dll**	1636088_at	**1.71**				D - EPN specific
Dmel_CG16743	**CG16743**	1630088_at	**1.7**	6.660108401		2.1	H - missing in bac. Injection
Dmel_CG6024	**CG6024**	1636848_at	**1.7**	0.949790795			C – shared EPN+wasps
Cht6	**Cht6**	1633303_at	**1.69**				D - EPN specific
anastral spindle 1	**ana1**	1637397_a_at	**1.69**				D - EPN specific
tartan	**trn**	1639235_at	**1.69**				D - EPN specific
Thor	**CG8846**	1635900_at	**1.67**		1.71	3.44	F - missing in wasp infection
mutagen-sensitive 210	**mus210**	1632827_a_at	**1.67**				D - EPN specific
nemo	**nmo**	1624300_s_at	**1.66**	0.870678928			C – shared EPN+wasps
schnurri	**shn**	1625445_s_at	**1.66**				D - EPN specific
trio	**trio**	1635047_s_at	**1.66**				D - EPN specific
Myosin binding subunit	**Mbs**	1630456_at	**1.65**				D - EPN specific
Dmel_CG8771	**CG8771**	1635778_at	**1.65**				D - EPN specific
Dmel_CG3630	**CG3630**	1636461_at	**1.64**				D - EPN specific
Connectin	**Con**	1639913_at	**1.63**	0.912106008			C – shared EPN+wasps
telomere fusion	**tefu**	1630729_at	**1.63**				D - EPN specific
Dmel_CG4213	**CG4213**	1634084_at	**1.63**				D - EPN specific
unc-13	**unc-13**	1635684_a_at	**1.63**				D - EPN specific
Dmel_CG5098	**CG5098**	1637079_at	**1.63**				D - EPN specific
Syncrip	**Syp**	1640760_at	**1.62**	0.27532097	2.416948355		B - missing in pathogenic bacteria
scabrous	**sca**	1636998_at	**1.62**	0.876908394			C – shared EPN+wasps
Prosap	***Prosap***	1625236_s_at	***1.62***				D - EPN specific
Dmel_CG5524	**CG5524**	1639138_at	**1.62**				D - EPN specific
stumps	**stumps**	1634063_a_at	**1.61**				D - EPN specific
Dmel_CG13003	**CG13003**	1630570_at	**1.6**				D - EPN specific
staufen	**stau**	1633016_a_at	**1.6**				D - EPN specific
dim γ-tubulin 5	**dgt5**	1641436_at	**1.6**				D - EPN specific
Dmel_CG32176	**CG32176**	1641704_at	**1.6**				D - EPN specific
enabled	**ena**	1627191_a_at	**1.59**				D - EPN specific
CHKov1	**CHKov1**	1625997_s_at	**1.58**				D - EPN specific
eukaryotic translation initiation factor 4G2	**eIF4G2**	1637987_at	**1.55**	0.862151836			C – shared EPN+wasps
Cullin-3	**Cul-3**	1624970_s_at	**1.55**				D - EPN specific
golden goal	**gogo**	1625852_at	**1.55**				D - EPN specific
mRNA-like ncRNA in embryogenesis 2	**MRE2**	1629325_at	**1.55**				D - EPN specific
abrupt	**ab**	1629702_a_at	**1.55**				D - EPN specific
naked cuticle	**nkd**	1630361_at	**1.55**				D - EPN specific
Myocardin-related transcription factor	**Mrtf**	1636679_at	**1.55**				D - EPN specific
anastral spindle 3	**ana3**	1640805_at	**1.55**				D - EPN specific
Dmel_CG14655	**CG14655**	1627852_at	**1.54**				D - EPN specific
serrano	**sano**	1627971_s_at	**1.54**				D - EPN specific
Thd1	**Thd1**	1636521_at	**1.54**				D - EPN specific
Nutrient Amino Acid Transporter 1	**NAAT1**	1639528_at	**1.54**				D - EPN specific
Dmel_CG1146	**CG1146**	1637605_s_at	**1.53**				D - EPN specific
Jumonji, AT rich interactive domain 2	**Jarid2**	1634092_at	**1.52**	0.858938891			C – shared EPN+wasps
enhanced adult sensory threshold	**east**	1624378_at	**1.52**				D - EPN specific
Dmel_CG16972	**CG16972**	1630207_at	**1.52**				D - EPN specific
couch potato	**cpo**	1632644_s_at	**1.52**				D - EPN specific
Dmel_CG6945	**CG6945**	1630923_at	**1.51**				D - EPN specific
Dmel_CG42356	**CG42356**	1632958_a_at	**1.5**			2.33	G – shared EPN+pathogenic G- bacteria
mustard	**mtd**	1626842_a_at	**1.5**				D - EPN specific
Dmel_CG31340	**CG31340**	1633241_at	**1.5**				D - EPN specific
nervous fingers 1	**nerfin-1**	1634039_at	**1.5**				D - EPN specific
longitudinals lacking	**lola**	1635096_at	**1.5**				D - EPN specific
Dmel_CG42724	**CG42724**	1637665_at	**1.5**				D - EPN specific
onecut	**onecut**	1630376_at	**1.49**				D - EPN specific
bangles and beads	**bnb**	1632734_s_at	**1.49**				D - EPN specific
Cirl	**Cirl**	1640640_at	**1.49**				D - EPN specific
Dmel_CG31780	**CG31780**	1624619_s_at	**1.48**	7.268118978			C – shared EPN+wasps
Checkpoint suppressor homologue	**CHES-1-like**	1629295_at	**1.48**				D - EPN specific
Dmel_CG30091	**CG30091**	1632210_at	**1.47**				D - EPN specific
Not1	**Not1**	1638560_a_at	**1.47**				D - EPN specific
Phosphodiesterase 11	**Pde11**	1639582_at	**1.47**				D - EPN specific
Dmel_CG9451	**CG9451**	1636526_at	**1.46**	2.029733094			C – shared EPN+wasps
Dmel_CG10383	**CG10383**	1629398_at	**1.46**		2.193194598		E - shared EPN+bac. injection
APC-like	**Apc**	1628548_at	**1.46**			1.37	G – shared EPN+pathogenic G- bacteria
polyhomeotic proximal	**ph-p**	1623441_at	**1.46**				D - EPN specific
Myocyte enhancer factor 2	**Mef2**	1626392_s_at	**1.46**				D - EPN specific
decapentaplegic	**dpp**	1630026_s_at	**1.46**				D - EPN specific
Protein C kinase 98E	**Pkc98E**	1631059_at	**1.46**				D - EPN specific
Alhambra	**Alh**	1630415_at	**1.45**	1.02075416			C – shared EPN+wasps
kon-tiki	**kon**	1625687_at	**1.45**				D - EPN specific
Calmodulin-binding transcription activator	**Camta**	1626232_at	**1.45**				D - EPN specific
Dmel_CG42390	**CG42390**	1628867_s_at	**1.45**				D - EPN specific
polo	**polo**	1636189_at	**1.45**				D - EPN specific
karst	**kst**	1637710_at	**1.45**				D - EPN specific
fat	**ft**	1624125_at	**1.44**				D - EPN specific
mushroom-body expressed	**mub**	1625921_at	**1.44**				D - EPN specific
Dmel_CG4612	**CG4612**	1627151_at	**1.44**				D - EPN specific
skuld	**skd**	1631516_s_at	**1.44**				D - EPN specific
asense	**ase**	1635124_at	**1.44**				D - EPN specific
anterior open	**aop**	1627394_s_at	**1.43**	1.00640539			C – shared EPN+wasps
Stromalin	**SA**	1626710_at	**1.42**				D - EPN specific
Meiotic central spindle	**Meics**	1629709_at	**1.42**				D - EPN specific
Dmel_CG6357	**CG6357**	1633059_at	**1.42**				D - EPN specific
Suppressor of zeste 2	**Su(z)2**	1633866_at	**1.42**				D - EPN specific
longitudinals lacking	***lola***	1640945_at	***1.41***	2.573891626			C – shared EPN+wasps
trithorax	**trx**	1624533_s_at	**1.41**	0.936943992			C – shared EPN+wasps
ftz transcription factor 1	**ftz-f1**	1624520_a_at	**1.41**				D - EPN specific
Dmel_CG9626	**CG9626**	1624725_at	**1.41**				D - EPN specific
Liprin-γ	**Liprin-γ**	1625011_at	**1.41**				D - EPN specific
Dmel_CG32369	**CG32369**	1638611_at	**1.41**				D - EPN specific
Dmel_CG7376	**CG7376**	1623124_at	**1.4**				D - EPN specific
Tis11 homolog	**Tis11**	1623863_a_at	**1.4**				D - EPN specific
Dmel_CG5514	**CG5514**	1624644_a_at	**1.4**				D - EPN specific
spalt major	**salm**	1627881_at	**1.4**				D - EPN specific
SoxNeuro	**SoxN**	1631408_at	**1.4**				D - EPN specific
Dp110	**Pi3K92E**	1631594_s_at	**1.4**				D - EPN specific
Dmel_CG32113	**CG32113**	1632287_at	**1.4**				D - EPN specific
dally-like	**dlp**	1636974_at	**1.4**				D - EPN specific
Dmel_CG13636	**CG13636**	1641738_a_at	**1.4**				D - EPN specific
Dmel_CG12868	**CG12868**	1635030_at	**1.39**		3.062181652	8	F - missing in wasp infection
purity of essence	**poe**	1634654_at	**1.39**	0.854332193			C – shared EPN+wasps
Dmel_CG18769	**CG18769**	1633715_s_at	**1.39**				D - EPN specific
B52	**B52**	1633821_at	**1.39**				D - EPN specific
rad50	**rad50**	1638887_a_at	**1.39**				D - EPN specific
Dmel_CG8457	**CG8457**	1640747_s_at	**1.39**				D - EPN specific
roundabout	**robo**	1626774_s_at	**1.38**				D - EPN specific
gliolectin	**glec**	1628743_at	**1.38**				D - EPN specific
Dmel_CG7715	**CG7715**	1629765_at	**1.38**				D - EPN specific
midline fasciclin	**mfas**	1632298_s_at	**1.38**				D - EPN specific
split ends	**spen**	1641518_a_at	**1.38**				D - EPN specific
hibris	**hbs**	1637539_a_at	**1.37**	0.74710544			C – shared EPN+wasps
myoblast city	**mbc**	1631013_at	**1.37**			2.135	G – shared EPN+pathogenic G- bacteria
Dmel_CG6700	**CG6700**	1627530_at	**1.37**				D - EPN specific
Dmel_CG11414	**CG11414**	1631406_at	**1.37**				D - EPN specific
Dmel_CG31357	**CG31357**	1632916_at	**1.37**				D - EPN specific
wings apart-like	**wapl**	1636092_a_at	**1.37**				D - EPN specific
Sox21b	**CG32139**	1637750_at	**1.36**	0.459252157			C – shared EPN+wasps
Dmel_CG7294	**CG7294**	1631635_at	**1.36**			2.84	G – shared EPN+pathogenic G- bacteria
Dmel_CG43896	**CG43896**	1626206_at	**1.36**			1.54	G – shared EPN+pathogenic G- bacteria
CAP-D2 condensin subunit	**CAP-D2**	1625447_at	**1.36**				D - EPN specific
ariadne 2	**ari-2**	1625556_at	**1.36**				D - EPN specific
Dmel_CG2258	**CG2258**	1629104_at	**1.36**				D - EPN specific
Smad on X	**Smox**	1629290_at	**1.35**				D - EPN specific
Dmel_CG7142	**CG7142**	1635282_at	**1.35**				D - EPN specific
disconnected	**disco**	1639940_at	**1.35**				D - EPN specific
Dmel_CG8600	**CG8600**	1640510_at	**1.35**				D - EPN specific
Synaptotagmin 4	**Syt4**	1641475_at	**1.35**				D - EPN specific
Dmel_CG10289	**CG10289**	1641548_at	**1.35**				D - EPN specific

Dmel_CG6923	**CG6923**	1628420_s_at	**1.34**				D - EPN specific
par-1	**par-1**	1628849_at	**1.34**				D - EPN specific
Tollo	**Tollo**	1637481_at	**1.34**				D - EPN specific
hopscotch	**hop**	1639072_at	**1.33**	2			C – shared EPN+wasps
insensitive	**insv**	1624375_at	**1.33**				D - EPN specific
scribbler	**sbb**	1626352_at	**1.33**				D - EPN specific
Dmel_CG42533	**CG42533**	1634804_at	**1.33**				D - EPN specific
Dmel_CG34398	**CG34398**	1635127_at	**1.33**				D - EPN specific
pou domain motif 3	**pdm3**	1631222_at	**1.32**	3.545454545			C – shared EPN+wasps
gluon	**glu**	1635123_at	**1.32**	3.052313883			C – shared EPN+wasps
Dmel_CG32767	**CG32767**	1627122_at	**1.32**				D - EPN specific
mutagen-sensitive 312	**mus312**	1629113_a_at	**1.32**				D - EPN specific
pointed	**pnt**	1630010_a_at	**1.32**				D - EPN specific
chiffon	**chif**	1630995_at	**1.32**				D - EPN specific
Interacts with the C terminus of ELL 1	**Ice1**	1631109_at	**1.32**				D - EPN specific
Centrosomal protein 190kD	**Cp190**	1631940_s_at	**1.32**				D - EPN specific
Ankyrin 2	***Ank2***	1633313_at	***1.32***				D - EPN specific
vielfaltig	**vfl**	1638370_s_at	**1.32**				D - EPN specific
pavarotti	**pav**	1623405_at	**1.31**				D - EPN specific
Sin3A	**Sin3A**	1630165_s_at	**1.31**				D - EPN specific
Dmel_CG42863	**CG42863**	1634291_at	**1.31**				D - EPN specific
Dmel_CG31122	**CG31122**	1637365_at	**1.31**				D - EPN specific
Dmel_CG16896	**CG16896**	1638352_at	**1.31**				D - EPN specific
longitudinals lacking	**lola**	1634495_s_at	**1.3**	0.837751405			C – shared EPN+wasps
optic ganglion reduced	**ogre**	1628323_s_at	**1.3**		2.21608288		E - shared EPN+bac. injection
Promyelocytic leukemia zinc finger ortholog	**Plzf**	1639534_at	**1.3**				D - EPN specific
Leukocyte-antigen-related-like	**Lar**	1637537_at	**1.29**	0.92228936			C – shared EPN+wasps
multiple ankyrin repeats single KH domain	**mask**	1641226_a_at	**1.29**	0.875724028			C – shared EPN+wasps
found in neurons	**fne**	1633852_at	**1.29**	0.717516202			C – shared EPN+wasps
Glutactin	**Glt**	1630515_s_at	**1.29**			1.06	G – shared EPN+pathogenic G- bacteria
Dmel_CG9715	**CG9715**	1627694_at	**1.29**				D - EPN specific
Dmel_CG5639	**CG5639**	1630064_at	**1.29**				D - EPN specific
squeeze	**sqz**	1630772_at	**1.29**				D - EPN specific
Dmel_CG12054	**CG12054**	1636061_at	**1.29**				D - EPN specific
Megalin	**mgl**	1641272_at	**1.29**				D - EPN specific
Dmel_CG2225	**CG2225**	1630609_s_at	**1.28**				D - EPN specific
prospero	**pros**	1635500_a_at	**1.28**				D - EPN specific
female sterile (1) homeotic	**fs(1)h**	1625127_at	**1.27**	0.680376656			C – shared EPN+wasps
nejire	**nej**	1622925_at	**1.27**				D - EPN specific
roughest	**rst**	1625366_at	**1.27**				D - EPN specific
Dmel_CG6181	**Ge-1**	1632251_s_at	**1.27**				D - EPN specific
Dmel_CG32982	**CG32982**	1634406_at	**1.27**				D - EPN specific
Dmel_CG12105	**CG12105**	1640809_at	**1.27**				D - EPN specific
monkey king	**mkg**	1622892_s_at	**1.26**			1.21	G – shared EPN+pathogenic G- bacteria
longitudinals lacking	***lola***	1625768_s_at	***1.26***				D - EPN specific
Dicer-1	**Dcr-1**	1627580_at	**1.26**				D - EPN specific
BRWD3	**BRWD3**	1640098_at	**1.26**				D - EPN specific
Dmel_CG13624	**CG13624**	1636321_s_at	**1.25**			1.48	G – shared EPN+pathogenic G- bacteria
debra	**dbr**	1628243_at	**1.25**				D - EPN specific
Spc105-related	**Spc105R**	1628318_at	**1.25**				D - EPN specific
Dmel_CG8449	**CG8449**	1633082_at	**1.25**				D - EPN specific
Dmel_CG42319	**CG42319**	1624969_s_at	**1.24**	1.0203125			C – shared EPN+wasps
Serpin 28Dc	**Spn28Dc**	1636145_at	**1.24**		1.579484809		E - shared EPN+bac. injection
growth arrest and DNA damage-inducible gene 45	**Gadd45**	1625139_at	**1.24**			1.16	G – shared EPN+pathogenic G- bacteria
Dmel_CG10777	**CG10777**	1624719_at	**1.24**				D - EPN specific
Brahma associated protein 170kD	**Bap170**	1628423_at	**1.24**				D - EPN specific
Dmel_CG8232	**CG8232**	1636801_at	**1.24**				D - EPN specific
homeodomain interacting protein kinase	**hipk**	1639306_s_at	**1.23**	0.900560193			C – shared EPN+wasps
Polycomblike	**Pcl**	1623525_at	**1.23**	0.87116529			C – shared EPN+wasps
slender lobes	**sle**	1624252_s_at	**1.23**		2.137019888		E - shared EPN+bac. injection
asterless	**asl**	1625999_at	**1.23**				D - EPN specific
Bub1-related kinase	**BubR1**	1641015_at	**1.23**				D - EPN specific
Dmel_CG15784	**CG15784**	1640884_at	**1.22**	2.122161816	3.943964525	2.285	A - all infections
necrotic	**nec**	1636653_at	**1.22**	2.349722029			C – shared EPN+wasps
Daxx-like protein	**DLP**	1630023_at	**1.21**				D - EPN specific
Myosin heavy chain-like	**Mhcl**	1632231_a_at	**1.21**				D - EPN specific
mutagen-sensitive 201	**mus201**	1637542_s_at	**1.21**				D - EPN specific
Fasciclin 2	**Fas2**	1638956_at	**1.21**				D - EPN specific
Dmel_CG15744	**CG15744**	1639266_at	**1.21**				D - EPN specific
Programmed cell death 4 ortholog	**Pdcd4**	1640020_at	**1.21**				D - EPN specific
Hybrid male rescue	**Hmr**	1641024_at	**1.21**				D - EPN specific
Dmel_CG2909	**CG2909**	1630975_at	**1.2**	2.771760155		1.47	H - missing in bac. Injection
A kinase anchor protein 200	**Akap200**	1640838_s_at	**1.2**		2.384756328	2.015	F - missing in wasp infection
Dmel_CG4022	**CG4022**	1635037_at	**1.2**	1.2771261			C – shared EPN+wasps
dachsous	**ds**	1640627_at	**1.2**	1.049431232			C – shared EPN+wasps
Dmel_CG9839	**CG9839**	1632554_at	**1.2**				D - EPN specific
Dmel_CG10936	**CG10936**	1639703_s_at	**1.2**				D - EPN specific
Fancd2	**Fancd2**	1640096_at	**1.2**				D - EPN specific
toutatis	**tou**	1640433_a_at	**1.2**				D - EPN specific
Cadherin 96Ca	**Cad96Ca**	1623418_at	**1.19**		0.399106685		E - shared EPN+bac. injection
Tenascin accessory	**Ten-a**	1623755_at	**1.19**				D - EPN specific
pr-set7	**pr-set7**	1624463_s_at	**1.19**				D - EPN specific
Breast cancer 2, early onset homolog	**Brca2**	1624941_at	**1.19**				D - EPN specific
sister-of-Sex-lethal	**ssx**	1627150_at	**1.19**				D - EPN specific
Ceramidase	**CDase**	1639396_s_at	**1.19**				D - EPN specific
mirror	**mirr**	1639798_at	**1.19**				D - EPN specific
Toll	**Tl**	1639321_s_at	**1.18**	3	2.472136618	1.56	A - all infections
Imaginal disc growth factor 1	**Idgf1**	1633237_at	**1.18**	2.404311432			C – shared EPN+wasps
toucan	**toc**	1641048_a_at	**1.18**	1.033009352			C – shared EPN+wasps
Transferrin 1	**Tsf1**	1632430_at	**1.18**			2.29	G – shared EPN+pathogenic G- bacteria
Na,K-ATPase Interacting	***NKAIN***	1625992_s_at	***1.18***				D - EPN specific
odd paired	**opa**	1628865_at	**1.18**				D - EPN specific
DNA ligase I	**DNA-ligI**	1630390_at	**1.18**				D - EPN specific
WNK kinase	**Wnk**	1635378_at	**1.18**				D - EPN specific
lethal (1) G0148	**l(1)G0148**	1639411_at	**1.18**				D - EPN specific
male-specific lethal 1	**msl-1**	1639438_at	**1.18**				D - EPN specific
Ankyrin 2	***Ank2***	1640337_a_at	***1.18***				D - EPN specific
Cadherin 87A	**Cad87A**	1641575_at	**1.18**				D - EPN specific
Regulatory particle non-ATPase 5	**Rpn5**	1639091_at	**1.17**		2.037034174		E - shared EPN+bac. injection
Dmel_CG9568	**CG9568**	1639297_at	**1.17**			3.24	G – shared EPN+pathogenic G- bacteria
Dmel_CG33225	**CG33225**	1627156_at	**1.17**				D - EPN specific
cactus	**cact**	1629899_at	**1.17**				D - EPN specific
retinal degeneration C	**rdgC**	1634061_a_at	**1.17**				D - EPN specific
Dmel_CG31140	**CG31140**	1634447_at	**1.17**				D - EPN specific
Dmel_CG10948	**CG10948**	1636182_a_at	**1.17**				D - EPN specific
grappa	***gpp***	1637016_at	***1.17***				D - EPN specific
Elongation factor 4a	**CG9932**	1638653_a_at	**1.17**				D - EPN specific
Dmel_CG1815	**CG1815**	1641089_s_at	**1.17**				D - EPN specific
Down syndrome cell adhesion molecule	**Dscam**	1637619_s_at	**1.16**	0.818395743			C – shared EPN+wasps
Smc5	**Smc5**	1623590_s_at	**1.16**				D - EPN specific
mini spindles	**msps**	1628172_at	**1.16**				D - EPN specific
abnormal oocyte	**abo**	1628418_at	**1.16**				D - EPN specific
ATAC complex component 2	**Atac2**	1632308_at	**1.16**				D - EPN specific
Dmel_CG30440	**CG30440**	1634125_at	**1.16**				D - EPN specific
Sulfated	**Sulf1**	1635007_at	**1.16**				D - EPN specific
Dmel_CG11247	**CG11247**	1636887_s_at	**1.16**				D - EPN specific
masquerade	**mas**	1639190_at	**1.16**				D - EPN specific
knockout	**ko**	1641310_at	**1.16**				D - EPN specific
SD27140	**SD27140**	1641365_s_at	**1.16**				D - EPN specific
Suppressor of cytokine signaling at 36E	**Socs36E**	1637703_a_at	**1.15**	2.219902805		1.61	H - missing in bac. Injection
expanded	**ex**	1625970_at	**1.15**	1.166760884			C – shared EPN+wasps
terribly reduced optic lobes	**trol**	1640223_a_at	**1.15**	0.582856592			C – shared EPN+wasps
Inducer of meiosis 4	**Ime4**	1624263_at	**1.15**				D - EPN specific
windei	**wde**	1626478_at	**1.15**				D - EPN specific
MAN1	**MAN1**	1631696_s_at	**1.15**				D - EPN specific
tay bridge	**tay**	1633390_at	**1.15**				D - EPN specific
centrosomin	**cnn**	1635619_a_at	**1.15**				D - EPN specific
Cht6	**Cht6**	1639149_at	**1.15**				D - EPN specific
Dmel_CG15523	**CG15523**	1633846_at	**1.14**	2.299578059			C – shared EPN+wasps
Dmel_CG9449	**CG9449**	1628150_a_at	**1.14**			1.87	G – shared EPN+pathogenic G- bacteria
Dmel_CG10462	**CG10462**	1625530_at	**1.14**				D - EPN specific
Dmel_CG10376	**CG10376**	1626553_at	**1.14**				D - EPN specific

lethal (3) L1231	**l(3)L1231**	1629496_at	**1.14**				D - EPN specific
Dmel_CG4951	**CG4951**	1631151_at	**1.14**				D - EPN specific
Dmel_CG5872	**CG5872**	1635168_at	**1.14**				D - EPN specific
alan shepard	**shep**	1637552_s_at	**1.14**				D - EPN specific
enoki mushroom	**enok**	1639061_at	**1.14**				D - EPN specific
unkept	**unk**	1633020_at	**1.13**	0.92385834			C – shared EPN+wasps
Ubiquitin-specific protease 64E	**Ubp64E**	1624727_s_at	**1.13**				D - EPN specific
Dmel_CG11486	**CG11486**	1626332_s_at	**1.13**				D - EPN specific
convoluted	**conv**	1629638_at	**1.13**				D - EPN specific
Na,K-ATPase Interacting	***NKAIN***	1633752_at	***1.13***				D - EPN specific
little imaginal discs	**lid**	1633855_s_at	**1.13**				D - EPN specific
Dmel_CG14614	**CG14614**	1634430_at	**1.13**				D - EPN specific
Cadherin 74A	**Cad74A**	1635742_s_at	**1.13**				D - EPN specific
Integrator 1	**IntS1**	1636297_at	**1.13**				D - EPN specific
Lap1	**Lap1**	1639189_at	**1.13**				D - EPN specific
lemming A	**lmgA**	1639494_at	**1.13**				D - EPN specific
RNA polymerase II 215kD subunit	**RpII215**	1640764_at	**1.13**				D - EPN specific
Dmel_CG7922	**CG7922**	1641352_at	**1.13**				D - EPN specific
LIM-kinase1	**LIMK1**	1641452_a_at	**1.13**				D - EPN specific
glass	**gl**	1623923_a_at	**1.12**				D - EPN specific
Kinesin-like protein at 61F	**Klp61F**	1624620_at	**1.12**				D - EPN specific
Dmel_CG13604	**CG13604**	1625603_at	**1.12**				D - EPN specific
pickled eggs	**pigs**	1626090_at	**1.12**				D - EPN specific
pyramus	**pyr**	1631552_at	**1.12**				D - EPN specific
SMC2	**SMC2**	1634149_at	**1.12**				D - EPN specific
Dmel_CG30020	**CG30020**	1634691_a_at	**1.12**				D - EPN specific
Hairless	**H**	1638568_s_at	**1.12**				D - EPN specific
relative of woc	**row**	1638839_at	**1.12**				D - EPN specific
ubiquitin-like protein-specific protease 1	**Ulp1**	1639435_at	**1.12**				D - EPN specific
vestigial	**vg**	1641470_s_at	**1.12**				D - EPN specific
Enhancer of decapping 3	**Edc3**	1641685_at	**1.12**				D - EPN specific
shifted	**shf**	1635403_at	**1.11**	2			C – shared EPN+wasps
Argonaute-1	**AGO1**	1632602_s_at	**1.11**	0.828827339			C – shared EPN+wasps
Dmel_CG32486	**CG32486**	1624119_at	**1.11**				D - EPN specific
Transposon.32	**SD01615P**	1624543_s_at	**1.11**				D - EPN specific
nucampholin	**ncm**	1628866_at	**1.11**				D - EPN specific
combgap	**cg**	1630717_s_at	**1.11**				D - EPN specific
quaking related 58E-1	**qkr58E-1**	1631768_at	**1.11**				D - EPN specific
Dmel_CG8290	**CG8290**	1636126_at	**1.11**				D - EPN specific
Activated Cdc42 kinase-like	**Ack-like**	1637111_a_at	**1.11**				D - EPN specific
unc-104 ortholog	**unc-104**	1637684_at	**1.11**				D - EPN specific
prominin-like	**CG7740**	1641333_s_at	**1.11**				D - EPN specific
Dmel_CG7192	**CG7192**	1641445_s_at	**1.11**				D - EPN specific
Dmel_CG17836	**Xrp1**	1632712_s_at	**1.1**			2.17	G – shared EPN+pathogenic G- bacteria
withered	**whd**	1626147_s_at	**1.1**				D - EPN specific
ariadne	**ari-1**	1628016_s_at	**1.1**				D - EPN specific
skywalker	**sky**	1631094_s_at	**1.1**				D - EPN specific
Verprolin 1	**Vrp1**	1634562_s_at	**1.1**				D - EPN specific
polychaetoid	**pyd**	1637428_a_at	**1.1**				D - EPN specific
capsuleen	**csul**	1640862_a_at	**1.1**				D - EPN specific
semaphorin 2a	**Sema-2a**	1629819_s_at	**1.09**		2.452724324		E - shared EPN+bac. injection
Enhancer of bithorax	**E(bx)**	1625243_a_at	**1.09**				D - EPN specific
Dmel_CG9004	**CG9004**	1625269_at	**1.09**				D - EPN specific
sloppy paired 2	**slp2**	1627053_at	**1.09**				D - EPN specific
egghead	**egh**	1631621_s_at	**1.09**				D - EPN specific
Laminin B2	**LanB2**	1632666_at	**1.09**				D - EPN specific
Dmel_CG30389	**CG30389**	1637947_s_at	**1.09**				D - EPN specific
sec24	**sec24**	1640083_at	**1.09**				D - EPN specific
Protein kinase related to protein kinase N	**Pkn**	1640417_a_at	**1.09**				D - EPN specific
Posterior sex combs	**Psc**	1631095_at	**1.08**	0.927774215			C – shared EPN+wasps
lethal (3) persistent salivary gland 2	**l(3)psg2**	1622931_at	**1.08**				D - EPN specific
Dmel_CG42724	**CG42724**	1625578_at	**1.08**				D - EPN specific
Additional sex combs	**Asx**	1628901_at	**1.08**				D - EPN specific
Dmel_CG3363	**CG3363**	1631645_at	**1.08**				D - EPN specific
Transport and Golgi organization 6	**Tango6**	1636939_at	**1.08**				D - EPN specific
Bric-a-brac interacting protein 2	**bip2**	1639551_at	**1.08**				D - EPN specific
antiapoptosis clone 11	**Aac11**	1623100_at	**1.07**				D - EPN specific
Dorsal switch protein 1	**Dsp1**	1624304_s_at	**1.07**				D - EPN specific
polymerase eta	**DNApol-η**	1626494_at	**1.07**				D - EPN specific
Meltrin	**Meltrin**	1627649_at	**1.07**				D - EPN specific
crumbs	**crb**	1628146_at	**1.07**				D - EPN specific
Dmel_CG9754	**CG9754**	1628669_at	**1.07**				D - EPN specific
Dmel_CG5674	**CG5674**	1630550_a_at	**1.07**				D - EPN specific
jim	**jim**	1636911_at	**1.07**				D - EPN specific
Dmel_CG12179	**CG12179**	1637361_a_at	**1.07**				D - EPN specific
Myb-interacting protein 130	**mip130**	1639185_at	**1.07**				D - EPN specific
fat facets	**faf**	1640541_at	**1.07**				D - EPN specific
crooked legs	**crol**	1626018_a_at	**1.06**				D - EPN specific
tonalli	**tna**	1626730_s_at	**1.06**				D - EPN specific
Dmel_CG32206	**CG32206**	1628159_a_at	**1.06**				D - EPN specific
Negative elongation factor A	**Nelf-A**	1631550_at	**1.06**				D - EPN specific
Reduction in Cnn dots 5	**Rcd5**	1632420_at	**1.06**				D - EPN specific
Dmel_CG9449	**CG9449**	1633200_at	**1.06**				D - EPN specific
Son of sevenless	**Sos**	1633335_at	**1.06**				D - EPN specific
Dmel_CG2519	**CG2519**	1633681_at	**1.06**				D - EPN specific
Dmel_CG6409	**CG6409**	1634278_at	**1.06**				D - EPN specific
capicua	**cic**	1635909_at	**1.06**				D - EPN specific
Dmel_CG30007	**CG30007**	1637712_at	**1.06**				D - EPN specific
Hexokinase A	**Hex-A**	1625638_a_at	**1.05**		7.469895514	1.735	F - missing in wasp infection
Dmel_CG31496	**CG31496**	1628103_at	**1.05**				D - EPN specific
Furin 1	**Fur1**	1628952_s_at	**1.05**				D - EPN specific
Distal-less	**Dll**	1630237_a_at	**1.05**				D - EPN specific
Spinophilin	**Spn**	1633021_s_at	**1.05**				D - EPN specific
Dmel_CG8389	**CG8389**	1637774_s_at	**1.05**				D - EPN specific
lola like	**lolal**	1640311_s_at	**1.05**				D - EPN specific
drongo	**CG3365**	1623693_a_at	**1.04**			1.93	G – shared EPN+pathogenic G- bacteria
leonardo	**14-3-3ζ**	1625148_s_at	**1.04**				D - EPN specific
Cyclin B3	**CycB3**	1626454_at	**1.04**				D - EPN specific
RhoGEF3	**RhoGEF3**	1626756_a_at	**1.04**				D - EPN specific
Trithorax-like	**Trl**	1628275_at	**1.04**				D - EPN specific
Prosap	***Prosap***	1629160_s_at	***1.04***				D - EPN specific
Dmel_CG12155	**CG12155**	1632471_at	**1.04**				D - EPN specific
bves	**bves**	1633387_at	**1.04**				D - EPN specific
wallenda	**wnd**	1633727_s_at	**1.04**				D - EPN specific
Dmel_CG5604	**CG5604**	1634156_at	**1.04**				D - EPN specific
Dmel_CG8229	**CG8229**	1639048_a_at	**1.04**				D - EPN specific
hephaestus	**heph**	1637478_s_at	**1.03**	0.98616031	3.42258756		B - missing in pathogenic bacteria
worniu	**wor**	1631502_at	**1.03**	0.990381437			C – shared EPN+wasps
zipper	**zip**	1627840_a_at	**1.03**	0.938871223			C – shared EPN+wasps
Suppressor of Cytokine Signaling at 16D	**Socs16D**	1636122_at	**1.03**	0.857330289			C – shared EPN+wasps
embargoed	**emb**	1622939_at	**1.03**	0.797073236			C – shared EPN+wasps
scalloped	**sd**	1625515_a_at	**1.03**	0.755818539			C – shared EPN+wasps
echinoid	**ed**	1627506_at	**1.03**		0.318416425		E - shared EPN+bac. injection
Dmel_CG14562	**CG14562**	1623670_at	**1.03**				D - EPN specific
HERC2	**HERC2**	1629145_at	**1.03**				D - EPN specific
Kruppel homolog 1	**Kr-h1**	1631481_a_at	**1.03**				D - EPN specific
Dmel_CG17078	**CG17078**	1631919_at	**1.03**				D - EPN specific
Nijmegen breakage syndrome	**nbs**	1632161_at	**1.03**				D - EPN specific
mastermind	**mam**	1632457_s_at	**1.03**				D - EPN specific
Dmel_CG10508	**CG10508**	1623133_a_at	**1.02**				D - EPN specific
Bre1	**Bre1**	1624301_at	**1.02**				D - EPN specific
Dmel_CG9702	**CG9702**	1634174_at	**1.02**				D - EPN specific
RNA-binding protein 1	**Rbp1**	1638486_at	**1.02**				D - EPN specific
Serpin 88Eb	**Spn88Eb**	1636946_at	**1.01**	12	3.468032833		B - missing in pathogenic bacteria
mitochondrial RNA polymerase	**mtRNApol**	1626738_at	**1.01**				D - EPN specific
Dmel_CG7110	**CG7110**	1633876_at	**1.01**				D - EPN specific
Dmel_CG14322	**CG14322**	1634309_at	**1.01**				D - EPN specific
domeless	**dome**	1632381_at	**1**	1.558303521			C – shared EPN+wasps
pebbled	**peb**	1622949_at	**1**	0.839048644			C – shared EPN+wasps
coronin	**pod1**	1641620_s_at	**1**		2.009326839		E - shared EPN+bac. injection
Dmel_CG1233	**CG1233**	1625945_a_at	**1**				D - EPN specific
scaf6	**scaf6**	1627184_at	**1**				D - EPN specific

ballchen	**ball**	1628342_s_at	**1**				D - EPN specific
Dmel_CG13933	**CG13933**	1628791_at	**1**				D - EPN specific
Dmel_CG8366	**CG8366**	1632519_at	**1**				D - EPN specific
Dmel_CG15628	**CG15628**	1636248_at	**1**				D - EPN specific
piopio	**pio**	1638681_at	**1**				D - EPN specific
Zinc finger AT-hook protein	**D19A**	1640054_at	**1**				D - EPN specific
escargot	**esg**	1641639_at	**1**				D - EPN specific
Spermidine Synthase	**SpdS**	1630830_a_at	**-1**		2.10757595		E - shared EPN+bac. injection
Dmel_CG13018	**CG13018**	1629541_at	**-1**				D - EPN specific
Dmel_CG33169	**CG33169**	1632606_a_at	**-1**				D - EPN specific
Glutathione S transferase E3	**GstE3**	1637129_at	**-1.01**		6.271921203		E - shared EPN+bac. injection
Dmel_CG7607	**CG7607**	1626684_at	**-1.01**				D - EPN specific
Dmel_CG7231	**CG7231**	1633333_a_at	**-1.01**				D - EPN specific
Dmel_CG14671	**CG14671**	1637379_at	**-1.01**				D - EPN specific
Dmel_CG33013	**CG33013**	1637916_at	**-1.01**				D - EPN specific
Dmel_CG2540	**CG2540**	1640452_at	**-1.01**				D - EPN specific
Bekka	**Bka**	1627349_at	**-1.03**				D - EPN specific
Dmel_CG34229	**CG34229**	1634245_at	**-1.03**				D - EPN specific
Dmel_CG31957	**CG31957**	1641624_at	**-1.03**				D - EPN specific
mitochondrial ribosomal protein L10	**mRpL10**	1624012_at	**-1.04**				D - EPN specific
Dmel_CG14210	**CG14210**	1624635_at	**-1.04**				D - EPN specific
Dmel_CG13516	**CG13516**	1638764_at	**-1.04**				D - EPN specific
Dmel_CG11875	**CG11875**	1627803_at	**-1.05**				D - EPN specific
Dmel_CG34053	**CG34053**	1626658_at	**-1.06**				D - EPN specific
Jonah 25Bii	**Jon25Bii**	1639196_at	**-1.07**	1.19702279			C – shared EPN+wasps
Dmel_CG2680	**CG2680**	1630821_at	**-1.07**				D - EPN specific
Dmel_CG8026	**CG8026**	1633840_a_at	**-1.07**				D - EPN specific
cornichon related	**cnir**	1638047_at	**-1.07**				D - EPN specific
Dmel_CG9117	**CG9117**	1632406_at	**-1.08**				D - EPN specific
Dmel_CG14057	**CG14057**	1633054_at	**-1.08**				D - EPN specific
Dmel_CG5835	**CG5835**	1627354_at	**-1.09**				D - EPN specific
Dmel_CG32262	**CG32262**	1633691_at	**-1.09**				D - EPN specific
Dmel_CG6041	**CG6041**	1627432_at	**-1.11**	1.282119657			C – shared EPN+wasps
Dmel_CG8021	**CG8021**	1624984_at	**-1.11**				D - EPN specific
Dmel_CG10778	**CG10778**	1630701_at	**-1.11**				D - EPN specific
mitochondrial ribosomal protein L36	**mRpL36**	1624765_at	**-1.12**				D - EPN specific
Dmel_CG14544	**CG14544**	1634023_at	**-1.12**				D - EPN specific
Dmel_CG9804	**CG9804**	1635849_at	**-1.12**				D - EPN specific
Dmel_CG15706	**CG15706**	1640917_at	**-1.12**				D - EPN specific
Dmel_CG13690	**CG13690**	1633171_at	**-1.13**	2.310195228			C – shared EPN+wasps
garnysstan	**gny**	1636630_s_at	**-1.13**	1.093143152			C – shared EPN+wasps
technical knockout	**tko**	1626534_at	**-1.13**				D - EPN specific
Dmel_CG4186	**CG4186**	1629259_at	**-1.13**				D - EPN specific
Dmel_CG16986	**CG16986**	1629685_at	**-1.13**				D - EPN specific
Dmel_CG30010	**CG30010**	1637118_at	**-1.14**				D - EPN specific
Dmel_CG42235	**CG42235**	1627633_at	**-1.15**				D - EPN specific
Dmel_CG14463	**CG14463**	1640424_at	**-1.15**				D - EPN specific
Dmel_CG11781	**CG11781**	1630268_at	**-1.16**				D - EPN specific
Dmel_CG32448	**CG32448**	1638634_at	**-1.16**				D - EPN specific
Dmel_CG31229	**CG31229**	1630351_at	**-1.17**				D - EPN specific
Dmel_CG1488	**CG1488**	1630505_a_at	**-1.17**				D - EPN specific
Dmel_CG15152	**CG15152**	1633949_at	**-1.17**				D - EPN specific
Dmel_CG31084	**CG31084**	1627438_at	**-1.18**				D - EPN specific
Dmel_CG33170	**CG33170**	1631473_at	**-1.19**				D - EPN specific
Dmel_CG7460	**CG7460**	1625149_at	**-1.2**				D - EPN specific
Dmel_CG31720	**CG31720**	1632145_a_at	**-1.21**				D - EPN specific
Dmel_CG10300	**CG10300**	1636387_at	**-1.21**				D - EPN specific
mitochondrial ribosomal protein S18C	**mRpS18C**	1628621_at	**-1.23**				D - EPN specific
Dmel_CG7916	**CG7916**	1623817_at	**-1.24**				D - EPN specific
Dmel_CG31323	**CG31323**	1635371_at	**-1.24**				D - EPN specific
Dmel_CG10505	**CG10505**	1639368_at	**-1.24**				D - EPN specific
ZnT35C	**CG3994**	1639619_a_at	**-1.24**				D - EPN specific
Dmel_CG13217	**CG13217**	1623464_at	**-1.25**				D - EPN specific
Dmel_CG32669	**CG32669**	1623556_at	**-1.26**				D - EPN specific
Dmel_CG13014	**CG13014**	1631684_at	**-1.26**				D - EPN specific
Allatostatin C	**Ast-C**	1634436_at	**-1.26**				D - EPN specific
Dmel_CG17036	**CG17036**	1628221_at	**-1.27**				D - EPN specific
Dmel_CG7006	**CG7006**	1633247_at	**-1.27**				D - EPN specific
Dmel_CG1124	**CG1124**	1633989_at	**-1.27**				D - EPN specific
Dmel_CG13066	**CG13066**	1631695_at	**-1.29**				D - EPN specific
fuseless	**fusl**	1640365_s_at	**-1.29**				D - EPN specific
Dmel_CG15456	**CG15456**	1625166_at	**-1.31**	1.03422802			C – shared EPN+wasps
Dmel_CG13227	**CG13227**	1630218_at	**-1.31**				D - EPN specific
Niemann-Pick type C-2f	**Npc2f**	1634158_at	**-1.31**				D - EPN specific
Lcp65APsi	**CR18775**	1631002_at	**-1.32**	1.338640275			C – shared EPN+wasps
Dmel_CG18598	**CG18598**	1632319_at	**-1.32**				D - EPN specific
Dmel_CG11576	**CG11576**	1634197_at	**-1.32**				D - EPN specific
Dmel_CG34172	**CG34172**	1625901_s_at	**-1.33**				D - EPN specific
Dmel_CG13024	**CG13024**	1633264_at	**-1.34**				D - EPN specific
Cyp9f3Psi	**CG17875**	1640584_at	**-1.35**				D - EPN specific
selenocysteine methyltransferase	**CG10621**	1626086_at	**-1.36**	3.322991509	0.77		B - missing in pathogenic bacteria
Dmel_CG14701	**CG14701**	1627723_at	**-1.36**				D - EPN specific
Dmel_CG9672	**CG9672**	1635525_at	**-1.36**				D - EPN specific
Tetraspanin 42Er	**Tsp42Er**	1634977_at	**-1.37**			1.68	G – shared EPN+pathogenic G- bacteria
Dmel_CG1532	**CG1532**	1623959_at	**-1.38**				D - EPN specific
Dmel_CG31789	**CG31789**	1630692_at	**-1.43**				D - EPN specific
Dmel_CG18643	**CG18643**	1638845_at	**-1.43**				D - EPN specific
Dmel_CG3690	**CG3690**	1628284_at	**-1.45**				D - EPN specific
Dmel_CG14572	**CG14572**	1630725_at	**-1.45**				D - EPN specific
Tak1-like 2	**Takl2**	1632359_at	**-1.45**				D - EPN specific
Glutathione S transferase E7	**GstE7**	1640065_at	**-1.46**		6.081492362		E - shared EPN+bac. injection
Dmel_CG14610	**CG14610**	1636683_at	**-1.48**	11			C – shared EPN+wasps
Juvenile hormone esterase	**Jhe**	1637833_at	**-1.49**				D - EPN specific
Ugt86Dj	**Ugt86Dj**	1634029_at	**-1.51**				D - EPN specific
Dmel_CG33282	**CG33282**	1625342_at	**-1.53**				D - EPN specific
Dmel_CG13085	**CG13085**	1631382_at	**-1.55**				D - EPN specific
Dmel_CG11825	**CG11825**	1635263_at	**-1.56**			1.36	G – shared EPN+pathogenic G- bacteria
Dmel_CG9521	**CG9521**	1626597_at	**-1.58**				D - EPN specific
Dmel_CG17571	**CG17571**	1635878_s_at	**-1.59**				D - EPN specific
Insulin-like peptide 3	**Ilp3**	1627943_at	**-1.61**				D - EPN specific
Dmel_CG14141	**CG14141**	1641102_at	**-1.61**				D - EPN specific
Dmel_CG7130	**CG7130**	1628660_at	**-1.63**				D - EPN specific
Dmel_CG15336	**CG15336**	1632970_at	**-1.65**				D - EPN specific
Cuticular protein 67Fb	**Cpr67Fb**	1638742_at	**-1.7**	1.19722855			C – shared EPN+wasps
Jonah 65Ai	**Jon65Ai**	1636460_at	**-1.75**			0.48	G – shared EPN+pathogenic G- bacteria
Dmel_CG12490	**CG12490**	1636604_at	**-1.75**				D - EPN specific
Dmel_CG34112	**CG34112**	1630404_at	**-1.77**	0.409131603			C – shared EPN+wasps
Dmel_CG34267	**CG34267**	1626025_at	**-1.78**				D - EPN specific
Dmel_CG15554	**CG15554**	1634286_at	**-1.78**				D - EPN specific
Dmel_CG9394	**CG9394**	1636970_at	**-1.83**				D - EPN specific
Dmel_CG16771	**CG16771**	1630977_at	**-1.84**				D - EPN specific
Dmel_CG8299	**CG8299**	1633031_at	**-1.84**				D - EPN specific
Dmel_CG17681	**CG17681**	1633142_at	**-1.85**				D - EPN specific
Ecdysone-induced protein 63F 2	**Eip63F-2**	1639350_at	**-1.85**				D - EPN specific
Dmel_CG8560	**CG8560**	1639641_at	**-1.87**	1.215745914		0.73	H - missing in bac. Injection
Dmel_CG34451	**CG34451**	1635274_at	**-1.89**				D - EPN specific
Dmel_CG5883	**CG5883**	1637889_at	**-1.95**				D - EPN specific
Dmel_CG32379	**CG32379**	1628355_at	**-2.15**	0.463476071			C – shared EPN+wasps
Dmel_CG15155	**CG15155**	1623491_at	**-2.15**				D - EPN specific
Dmel_CG13012	**CG13012**	1625861_at	**-2.17**				D - EPN specific
Dmel_CG9826	**CG9826**	1625203_at	**-2.22**				D - EPN specific
Adipokinetic hormone	**Akh**	1631816_at	**-2.26**				D - EPN specific
Dmel_CG3344	**CG3344**	1632584_at	**-2.31**	1.177934444		0.865	H - missing in bac. Injection
Dmel_CG4363	**CG4363**	1630740_at	**-2.33**				D - EPN specific
Glutathione Synthetase	**GS**	1627321_x_at	**-2.35**				D - EPN specific
Dmel_CG7881	**CG7881**	1623229_at	**-2.4**				D - EPN specific
Dmel_CG32750	**CG32750**	1634445_at	**-2.41**				D - EPN specific
Dmel_CG9903	**CG9903**	1624333_at	**-2.55**				D - EPN specific
Dmel_CG15773	**CG15773**	1637326_at	**-2.85**				D - EPN specific
Dmel_CG32483	**CG32483**	1628500_at	**-3.08**	1.163031446			C – shared EPN+wasps
Dmel_CG13135	**CG13135**	1625802_a_at	**-3.58**				D - EPN specific

Gene identified by more transcripts in italics.

KEGG ID	KEGG path	FDR	P-value
dme04914	Progesterone-mediated oocyte maturation	2.42e-05	3.84e-07
dme04310	Wnt signaling pathway	0.00467	0.000148
dme04120	Ubiquitin mediated proteolysis	0.00988	0.000471
dme04630	Jak-STAT signaling pathway	0.0197	0.00156
dme04340	Hedgehog signaling pathway	0.0197	0.00153
dme04320	Dorso-ventral axis formation	0.0209	0.00199
dme04512	ECM-receptor interaction	0.0276	0.00306
dme03450	Non-homologous end-joining	0.0582	0.00739
dme03018	RNA degradation	0.0718	0.0103
dme00310	Lysine degradation	0.073	0.0116
dme03040	Spliceosome	0.0852	0.0149
dme03420	Nucleotide excision repair	0.104	0.0198
dme03440	Homologous recombination	0.112	0.0231
dme04013	MAPK signaling pathway - fly	0.161	0.0357
dme03013	RNA transport	0.179	0.0425

Arefin, Supplementary table 4

Arefin, Table S5

Name	Fold (compared to naive larval expression)	Function	Product
CG4250	no naive larval expression	circadian cycling in heads	LPS-induced tumor necrosis factor alpha type
Lectin24Db	no naive larval expression	galactose binding lectin	C-type lectin-like
Lectin28C	59.62	galactose binding lectin	C-type lectin-like
Eater	43.67	cell adhesion, recognition, phagocytosis,	bacterial cell surface binding protein
Scavenger receptor class C, type 1 (SR-C1)	25.44	scavenger receptor	Complement control module
Glutactin	19.67	extracellular matrix glycoprotein	Carboxylesterase type B
SPARC	13.75	ligand binding or carrier	SPARC/ostenectin-like

Arefin Table S6

	Gene Name	Abbreviation	MicroArrays (log2 FC)	qRT-PCR (log2 FC)	EPN Assay RNAi	EPN assay mutant	Detected in larval immune response
Candidates from our Microarray study	Immune induced molecule 3	IM3	8.99	9.59	ns		A - all infections
	Diptericin B	DptB	7.29	5.33	ns		A - all infections
	GNBP-like	CG13422	7.1	3.73	FB		B - missing in pathogenic bacteria
	Immune induced molecule 2	IM2	6.84		ns		B - missing in pathogenic bacteria
	Drosomycin	Drs	6.02	7.27	ns		A - all infections
	Metchnikowin	Mtk	5.5		ns		A - all infections
	Attacin-A	AttA	5.44	3.55	FB		A - all infections
	Peptidoglycan recognition protein SB1	PGRP-SB1	5.27	3.77	ns		A - all infections
	Thioester-containing protein 1	Tep1	2.66	2.82			C – shared EPN+wasps
	Dmel_CG6639	SPH93	2.47		ns		A - all infections
	starry night	stan	2.32		ns		D - EPN specific
	Immune induced molecule 18	CG10332/IM18	1.83		FB		D - EPN specific
	A kinase anchor protein 200	Akap200	1.2		ns		F - missing in wasp infection
	Dmel_CG7607	CG7607	1.01	3.78			D - EPN specific
	Argonaute 2	AGO2	0,79*		ns		E - shared EPN+bac. injection
	Spermidine Synthase	SpdS	-1	-1.23			E - shared EPN+bac. injection
Recognition molecules	Peptidoglycan recognition protein LF	PGRP-LF	1.8	0,44*		sensitive	D - EPN specific
	Thioester-containing protein 2	Tep2	1.99	2.47		ns	B - missing in pathogenic bacteria
	Thioester-containing protein 4	Tep4	0,73*			ns	B - missing in pathogenic bacteria
	Thioester-containing protein 3	Tep3				sensitive	
	Gram-negative bacteria binding protein 3	GNBP3				ns	bac. injection
	Peptidoglycan recognition protein SA	PGRP-SA				ns	shared wasp+bac. injection
	Peptidoglycan recognition protein LC	PGRP-LC				ns	
	Peptidoglycan recognition protein LE	PGRP-LE				ns	
Hemocytes enriched genes	Glutactin	Glt	1.29	1.96	Hem	sensitive	G – shared EPN+pathogenic G- bacteria
	dSR-CI	CG4099			ns		wasp specific
	Eater	CG6124			ns		
	Lectin28C	CG7106			ns		
	SPARC	CG6378			ns		
	Lectin24DB	CG2958			ns		
	Dmel_CG4250	CG4250			ns		wasp specific
	larval translucida	ltl			ns		
	Wrinkled	W			ns		

* - statistically significant but |log2FC|<1
FB - significantly sensitive to EPN infection after knockdown in fat body (driver PPL-Gal4)
Hem - significantly sensitive to EPN infection after knockdown in hemocytes (driver He-Gal4)
ns - non-significant response to EPN

Table S1. Supplementary Material and Methods: A: Gene-specific primers used for confirmation of the array data by qPCR: see Figure 3 for results. **B: *Drosophila* stocks used for nematode infections (see Fig. 1, 4-6 for results)**

Table S2. The 100 most strongly regulated genes are enriched in immune genes. Gene set enrichment analysis for the 100 most highly regulated genes in Fig 2 A was performed using Amigo (http://amigo.geneontology.org/cgi-bin/amigo/term_enrichment?session_id=).

Table S3. Complete set of transcripts that are regulated in different infection models. The differentially expressed transcripts in *Drosophila* larvae after infection with common G- and G+ bacteria [3,4], pathogenic G- bacteria [4], wasps [5-7] and nematodes (this work) are shown.

Table S4. Significantly enriched KEGG pathways after gene set enrichment analysis (GSEA). Enriched pathways after Fisher test for upregulated subset of significantly changed transcripts (logFC cutoff > 0.4 (TRUE), Q-VALUE cutoff 0.05:left column; and P-value at cutoff 0.05: right column) are shown.

Table S5: Hemocytes-enriched genes and their function. Genes were analyzed for enriched expression using previously published data [3].

Table S6: Comparison of functional analysis results and qPCR results with microarray data. Complete set of genes used in our functional analysis and qPCR compared to microarray results.