

Supplementary Table S3. List of *Ae. albopictus* differentially expressed transcripts (>10 fold change) post dual-infection. Fold change is shown post WNV challenge. Bold numbers have p-adjust value ≤ 0.01

Transcript ID	Gene description	Fold change 24 hpi with WNV	Fold change 48 hpi with WNV
AALF021807	C-Type Lysozyme (Lys-E)	433,67	5,25
AALF003252	Unspecified product	141,8	6,88
AALF016234	C-Type Lectin	82,76	22,12
AALF010414	Beta-hexosaminidase b	73,13	1,29
AALF013298	Unspecified product	69,07	23,19
AALF022426	Unspecified product	58,18	1,24
AALF009966	Unspecified product	57,49	3,8
AALF003774	Fibrinogen and fibronectin	52,19	9,14
AALF019859	Clip-Domain Serine Protease family B	49,47	7,65
AALF008821	Defensin anti-microbial peptide	45,81	16,18
AALF008776	Aromatic amino acid decarboxylase	44,81	2,13
AALF022425	Unspecified product	30,37	3,47
AALF009414	Putative secreted protein	27,46	4,81
AALF026731	Unspecified product	22,2	12,95
AALF001194	Unspecified product	21,11	-1,02
AALF008229	Unspecified product	19,8	1,13
AALF001093	Calreticulin	18,74	1,48
AALF007742	Unspecified product	18,38	-4,01
AALF020341	Unspecified product	18,34	-1,1
AALF023135	Unspecified product	18,05	-1,29
AALF016505	Leucine-rich immune protein	16,82	-1,43
AALF025212	Transferrin	15,93	-1,08
AALF020197	Clip-Domain Serine Protease family B	15,24	-6,49
AALF020799	Peptidoglycan Recognition Protein	14,47	8,03
AALF000812	Unspecified product	14,35	-2,81
AALF001195	Unspecified product	12,67	1,22
AALF007525	Unspecified product	12,61	23,73
AALF008452	Unspecified product	12,06	1,2
AALF015567	Cystathionine beta-synthase	11,47	2,07
AALF014689	Fibrinogen and fibronectin	10,7	-2,12
AALF002418	Imaginal disc growth factor	10,43	3,14
AALF023540	Unspecified product	10,41	1
AALF023089	Serine--pyruvate aminotransferase	10,31	2,58
AALF001232	Pyruvate carboxylase	10,23	-1,45
AALF016365	Munc13-4	10,03	6,05
AALF011706	Unspecified product	-10,79	-26,44
AALF008709	Mfs transporter	-10,8	-7,4
AALF028505	Unspecified product	-13,72	-65,33
AALF020168	Unspecified product	-13,93	-22,6

AALF025541	Unspecified product	-15,32	-7,35
AALF008099	Endothelin-converting enzyme	-15,39	-66,8
AALF000742	Unspecified product	-15,81	-54,52
AALF010788	Unspecified product	-16,19	-3,04
AALF008879	Type IV inositol 5-phosphatase	-16,65	-60,51
AALF016756	Sugar transporter	-16,65	-3,67
AALF005838	Unspecified product	-19,31	-3,52
AALF022022	cdkl1/4	-23,59	-3,78
AALF004114	No-mechanoreceptor potential a	-24,69	-45,32
AALF011390	Putative ecdysone-induced protein	-26,61	-21,06
AALF020798	Unspecified product	-29,45	-10,58
AALF000142	Unspecified product	-31,21	-9,07
AALF009909	Unspecified product	-32,33	-140,61
AALF001259	Unspecified product	-36,13	-36,84
AALF014478	Heat shock protein HSP70	-37,21	-2,23
AALF012770	Aldehyde oxidase	-37,85	-39,12
AALF001105	Unspecified product	-40,91	-26,97
AALF002857	Unspecified product	-42,81	-133,32
AALF002636	Unspecified product	-43,27	-11,27
AALF014479	Unspecified product	-45,78	-4,49
AALF025810	Unspecified product	-51,86	-28,39
AALF013937	Serine protease	-52,04	-60,31
AALF014375	Unspecified product	-57,5	-72,13
AALF014481	Unspecified product	-61,13	-4,53
AALF027745	Microtubule-associated protein	-61,99	-12,41
AALF009202	C-Type Lectin (CTL)	-65,3	-13,8
AALF013936	Unspecified product	-78,5	-156,98
AALF006472	Unspecified product	-86,08	-193,34
AALF018782	Unspecified product	-140,73	-7,07
AALF015015	Unspecified product	-230,79	-2,78
AALF015014	Clip-Domain Serine Protease family D	-245,49	-75,47
AALF016295	Unspecified product	-249,88	-269,15
AALF014395	Unspecified product	-605,75	-300,78
AALF028496	Unspecified product	-78146,04	-2,52
AALF005731	Zinc finger protein	-108806,97	-3,06
AALF010569	Unspecified product	55,04	6440,46
AALF001962	Unspecified product	-11,56	609,49
AALF013640	Unspecified product	2,62	174,41
AALF018203	Mitogen-activated protein kinase	1,67	146,9
AALF004571	Unspecified product	9,85	122,64
AALF013285	Unspecified product	-1,1	106,95
AALF019759	Unspecified product	1,81	88,79
AALF003990	Mannosyltransferase	7,13	88,65

AALF003128	4-nitrophenylphosphatase	7,55	66,68
AALF003110	Unspecified product	2,94	57,86
AALF005738	Unspecified product	3,28	52,57
AALF013715	Unspecified product	5,78	44,94
AALF025486	Unspecified product	4,16	44,72
AALF011149	Unspecified product	1,37	44,14
AALF011886	Mitogen-activated protein kinase	3,5	43,42
AALF010775	Unspecified product	42,41	43,12
AALF011414	Unspecified product	2,71	40,53
AALF020693	Unspecified product	-2,54	40,21
AALF022006	Unspecified product	14,55	39,8
AALF003569	Unspecified product	9,47	39,52
AALF002752	Unspecified product	3,56	37,95
AALF001937	Unspecified product	4,45	37,7
AALF021815	Sulfhydryl oxidase	1,83	33,37
AALF027170	Unspecified product	-1,18	32,06
AALF026344	Unspecified product	2,55	31,71
AALF021835	BiP/GRP78	8,37	31,7
AALF027168	Pcdc2/rp-8	6,72	29,28
AALF005588	L-lactate dehydrogenase	8,1	28,92
AALF026694	GrpE protein homolog	4,77	28,84
AALF023086	Sil1	1,5	28,59
AALF012753	Unspecified product	12,07	28,33
AALF024273	39S ribosomal protein L34	2,68	26,79
AALF019596	Unspecified product	2,78	26,78
AALF007470	Unspecified product	1,58	25,27
AALF003871	Unspecified product	2,78	24,79
AALF005644	Protein KRTCAP2 homolog	-1,05	23,85
AALF017272	60S ribosome subunit biogenesis protein NIP7 homolog	2,63	23,72
AALF028423	Poly [ADP-ribose] polymerase	1,11	23,69
AALF019485	Unspecified product	3,6	23,68
AALF007387	Unspecified product	3,27	23,54
AALF003976	Unspecified product	10,42	23,4
AALF014826	Unspecified product	1,78	22,82
AALF006960	Derlin	2,33	21,84
AALF014725	Unspecified product	5,5	21,4
AALF008938	Putative vesicle coat complex copI zeta subunit	2,98	21,29
AALF006247	Putative microsomal signal peptidase 25 kDa subunit	8,72	20,65
AALF003192	Signal peptidase complex subunit 3	6,58	20,26
AALF019423	Signal peptidase complex catalytic subunit SEC11	5,27	19,83
AALF026705	Putative mitochondrial import inner membrane translocase subunit tim8	1,19	19,77
AALF005816	ER membrane protein complex subunit 4	3,83	18,61

AALF018519	Unspecified product	2,37	18,5
AALF017894	Pyrroline-5-carboxylate reductase	1,73	18,46
AALF010277	L-lactate dehydrogenase	4,25	18,42
AALF017936	Unspecified product	1,21	18,35
AALF027267	39S ribosomal protein L22	2,55	18,28
AALF019139	Hect E3 ubiquitin ligase	1,24	17,75
AALF021211	Unspecified product	4,56	16,31
AALF018192	Kinase	3,69	16,17
AALF006811	Metaxin	6,87	16,14
AALF023408	Unspecified product	2,68	16,02
AALF013670	Unspecified product	6,32	15,93
AALF017066	Unspecified product	1,6	15,88
AALF002862	39S mitochondrial ribosomal protein L28	3,2	15,52
AALF028288	Unspecified product	1,57	15,45
AALF016188	Eukaryotic translation initiation factor	5,44	15,34
AALF012726	Unspecified product	2,67	14,99
AALF015083	Unspecified product	2,3	14,81
AALF023527	Unspecified product	1,63	14,76
AALF025878	Unspecified product	2,99	14,65
AALF002306	Unspecified product	5,12	14,64
AALF002436	Unspecified product	1,83	14,64
AALF016399	Unspecified product	3,82	14,59
AALF015963	Unspecified product	-1,04	14,48
AALF017030	Unspecified product	3,04	14,3
AALF010131	Unspecified product	4,79	14,26
AALF017935	Stearoyl-coa desaturase	-1,07	14
AALF024308	Unspecified product	2,94	13,99
AALF007472	Unspecified product	1,48	13,9
AALF003428	Unspecified product	10,77	13,85
AALF027123	Long-chain-fatty-acid coa ligase	3,29	13,77
AALF001336	Putative selenoprotein g	3,02	13,71
AALF023156	tRNA (adenine(58)-N(1))-methyltransferase catalytic subunit TRMT61A	2,66	13,46
AALF002987	Unspecified product	1,52	13,31
AALF008836	Unspecified product	1,58	13,26
AALF017325	Unspecified product	1,27	13,12
AALF020872	Putative secreted protein	2,34	13,05
AALF021933	Unspecified product	1,31	13,04
AALF010887	Unspecified product	-1,08	13,02
AALF008678	Choline-phosphate cytidylyltransferase a, b	9,83	12,99
AALF011939	Endoplasmin	5,12	12,98
AALF021504	Unspecified product	2,43	12,79
AALF015904	Unspecified product	3,51	12,77

AALF026342	Unspecified product	3,08	12,76
AALF001505	Cell adhesion molecule	1,27	12,75
AALF006812	Short-chain dehydrogenase	2,02	12,34
AALF010373	Phosphoglycerate mutase	1,36	12,34
AALF008913	Unspecified product	2,7	12,15
AALF006680	Unspecified product	2,47	12,03
AALF020200	Mitochondrial ornithine transporter	3,24	12,01
AALF009639	Unspecified product	6,06	11,84
AALF012016	DnaJ homolog subfamily B member 11 precursor	2,05	11,77
AALF020282	Unspecified product	3,15	11,72
AALF002846	Putative cpj005033 nucleolar protein nhp2	4,43	11,71
AALF001439	Unspecified product	1,36	11,71
AALF000613	Unspecified product	2,5	11,65
AALF014036	Unspecified product	2,26	11,57
AALF016160	Activating signal cointegrator 1 complex subunit 3, helc1	1,84	11,46
AALF013787	Unspecified product	-1,07	11,36
AALF016639	Unspecified product	-1,09	11,23
AALF026969	Unspecified product	2,22	11,07
AALF002466	Protein disulfide-isomerase A6 precursor	5,2	11,04
AALF003447	Unspecified product	1,96	10,92
AALF013154	Unspecified product	4,78	10,9
AALF019760	Unspecified product	7,48	10,43
AALF020008	Putative growth hormone-induced protein	6,29	10,4
AALF019136	Unspecified product	-1,68	10,28
AALF001501	Phosphoglucomutase	2,24	10,27
AALF022744	Mitochondria associated granulocyte macrophage csf signaling molecule	1,04	10,21
AALF014037	Cle7	2,48	10,05
AALF009537	Unspecified product	-1,03	10
AALF003854	Repressor of RNA polymerase III transcription MAF1	-1,16	-10,05
AALF023601	Peroxidasin	4,7	-10,12
AALF013429	Unspecified product	-6,17	-10,13
AALF006047	Unspecified product	-3,13	-10,17
AALF026258	DNA helicase	-2,55	-10,19
AALF023157	Unspecified product	-1,32	-10,47
AALF003039	Prophenoloxidase	-1,52	-10,48
AALF015542	Unspecified product	2,05	-10,57
AALF008037	Unspecified product	1,07	-10,65
AALF016899	Unspecified product	-1,67	-10,7
AALF023425	Unspecified product	-2,87	-10,73
AALF011299	Gamma glutamyl transpeptidases	-6,92	-10,92
AALF017425	Unspecified product	4,66	-10,93
AALF021839	Sodium/solute symporter	-3,69	-11,1

AALF027385	Adenylate cyclase	-2,16	-11,11
AALF005533	Unspecified product	-3,84	-11,48
AALF011858	Unspecified product	-8,58	-11,66
AALF008809	Nidogen	2,1	-11,94
AALF024686	Unspecified product	-3,35	-11,99
AALF015269	Unspecified product	-3,8	-12,26
AALF020706	Bifunctional purine biosynthesis protein	-1,77	-12,54
AALF019525	Unspecified product	-8,92	-12,58
AALF000395	Unspecified product	1,42	-13,67
AALF018338	F-spondin	1,41	-13,93
AALF003944	Unspecified product	-6,28	-14,29
AALF025462	Unspecified product	-15,65	-14,74
AALF000129	Unspecified product	4,62	-15,36
AALF008893	Unspecified product	-2,66	-15,6
AALF024829	Brain chitinase and chia	-2,11	-15,73
AALF011491	Unspecified product	1,83	-15,84
AALF015943	Methylenetetrahydrofolate dehydrogenase	2,08	-15,87
AALF008765	Glutamate synthase	-1,18	-16,02
AALF000130	Unspecified product	3,55	-16,06
AALF022389	Unspecified product	-1,36	-16,26
AALF007615	Unspecified product	-9,62	-16,35
AALF005637	Unspecified product	-2,92	-16,39
AALF007101	Unspecified product	-1,95	-16,99
AALF019868	F-spondin	2,69	-17,25
AALF007246	Unspecified product	-1,25	-17,35
AALF009035	Cyclin a	-4,45	-17,38
AALF007570	Clip-Domain Serine Protease family B. Protease homologue	1,65	-17,51
AALF009765	Glutamate synthase	-1,77	-17,84
AALF027905	Prophenoloxidase	1,78	-18,05
AALF023670	Unspecified product	-2,97	-18,05
AALF005743	Unspecified product	-4,54	-18,17
AALF012739	Alpha-mannosidase	-2,52	-18,34
AALF027708	Unspecified product	-2,68	-18,36
AALF013089	Unspecified product	-2,8	-18,83
AALF021923	Gamma-glutamyl hydrolase	1,27	-18,85
AALF012022	Sodium-dependent phosphate transporter	-1,57	-19,08
AALF016175	Matrix metalloproteinase	-2,76	-19,59
AALF014285	Unspecified product	-8,93	-19,82
AALF002486	Unspecified product	-14,81	-20,11
AALF006132	Unspecified product	-7,01	-20,49
AALF025231	Unspecified product	-9,13	-20,68
AALF017372	Translin associated factor x	-7,52	-20,69
AALF016456	Unspecified product	-12,44	-21,08

AALF003366	Unspecified product	-13,7	-21,34
AALF027074	Unspecified product	-7,49	-21,61
AALF028546	Unspecified product	-6,17	-21,84
AALF016286	Unspecified product	-2,81	-21,87
AALF012694	Putative apolipoprotein d/lipocalin	-3,92	-22,44
AALF022970	Unspecified product	-2	-22,52
AALF024663	GPCR Octopamine/Tyramine Family	-21,55	-22,72
AALF002599	Unspecified product	-2,44	-22,85
AALF011816	Unspecified product	-2	-23,22
AALF018011	Unspecified product	-1,62	-23,59
AALF013129	Trehalose-6-phosphate synthase	-1,93	-23,66
AALF003849	Unspecified product	-6,36	-24,34
AALF016501	Unspecified product	-7,73	-24,6
AALF016566	Unspecified product	-2,33	-25,09
AALF026911	GPCR Orphan/Putative Class B Family	-7,02	-25,17
AALF020305	Carboxylic ester hydrolase	-5,35	-25,29
AALF027964	Unspecified product	-11,8	-25,36
AALF023403	Unspecified product	-7,12	-25,75
AALF028503	Defense repressor	-5,65	-26,16
AALF012970	Unspecified product	1,93	-26,36
AALF021548	GPCRG astrin/Bombesin Family	-13,46	-26,74
AALF021556	Unspecified product	-26,66	-28,34
AALF025810	Unspecified product	-51,86	-28,39
AALF010876	Unspecified product	-5,21	-28,97
AALF008397	Unspecified product	-8,95	-29,55
AALF006674	Unspecified product	-11,91	-29,68
AALF006581	Unspecified product	1,36	-29,76
AALF006673	Unspecified product	-6,18	-31,67
AALF010019	Brain chitinase and chia	-3,66	-33,56
AALF004309	Putative sodium/potassium-transporting atpase subunit beta-2	4,1	-34,15
AALF019880	Dihydropyrimidine dehydrogenase [NADP(+)]	1,25	-35,91
AALF010137	Histone H2B	1,34	-38,11
AALF014933	Prophenoloxidase	3,43	-38,44
AALF020399	Unspecified product	-38,38	-39,25
AALF013610	Dihydropyrimidine dehydrogenase [NADP(+)]	1,27	-42,04
AALF022513	Unspecified product	-2,36	-44,29
AALF016111	Unspecified product	-9,53	-44,64
AALF012955	Serine protease	-3,92	-45,02
AALF014537	Histone H2B	2,06	-50,14
AALF003951	Unspecified product	-7,78	-53,28
AALF010648	Histone H2B	1,91	-54,45
AALF005415	Unspecified product	-27,49	-57,41
AALF020202	Unspecified product	-9,21	-58,36

AALF024124	Cytochrome P450	3,79	-62,99
AALF004118	Unspecified product	-8,76	-65,39
AALF010649	Histone H2A	-1,26	-86,69
AALF011637	Unspecified product	-5,25	-96,12
AALF012023	Unspecified product	-8,18	-101,26
AALF016470	Carboxylic ester hydrolase	-1,19	-126,43
AALF019822	Unspecified product	-80,8	-152,61
AALF010790	Unspecified product	-2,76	-168,37
AALF022750	Unspecified product	-10,19	-209,59
AALF019479	Unspecified product	-39,56	-321,03
AALF013172	Alpha-amylase	-4,84	-370,93
AALF012014	Unspecified product	-19,42	-566,3
AALF023401	Unspecified product	-130,49	-645,54
AALF018987	Unspecified product	-1,11	-2938,92