

**Transcriptomic analysis of insecticide resistance in the lymphatic filariasis vector *Culex quinquefasciatus***

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**Table S6.** Gene set annotation enrichment analysis results from a list of probes with a  $-\log_{10}$  false-discovery rate (FDR)  $> 2$  obtained from the ANOVA. Go Term highlight in yellow belongs to highest cluster enrichment score.

Category	Term	RT	Count	%	P-Value	Benjamini
INTERPRO	Glutathione S-transferase, N-terminal	RT	10	3.8	0.000000150	0.000067000
INTERPRO	Glutathione S-transferase, C-terminal-like	RT	10	3.8	0.000001200	0.000028000
INTERPRO	Glutathione S-transferase, C-terminal	RT	9	3.4	0.000001300	0.000020000
INTERPRO	Thioredoxin-like fold	RT	10	3.8	0.000110000	0.013000000
UP_KEYWORDS	Transferase	RT	29	10.9	0.000180000	0.019000000
GOTERM_MF_DIRECT	transferase activity	RT	9	3.4	0.001500000	0.170000000
UP_KEYWORDS	Chromosome	RT	8	3	0.001800000	0.094000000
INTERPRO	NAD(P)-binding domain	RT	12	4.5	0.001900000	0.160000000
SMART	H3	RT	5	1.9	0.002000000	0.170000000
INTERPRO	Histone core	RT	7	2.6	0.002000000	0.140000000
INTERPRO	Histone H3	RT	5	1.9	0.002100000	0.130000000
UP_KEYWORDS	Nucleus	RT	16	6	0.002700000	0.091000000
COG_ONTOLOGY	Posttranslational modification, protein turnover, chaperones	RT	10	3.8	0.002900000	0.049000000
INTERPRO	Peptidase S1, trypsin family, active site	RT	11	4.1	0.004500000	0.230000000
GOTERM_MF_DIRECT	NAD binding	RT	4	1.5	0.004600000	0.250000000
KEGG_PATHWAY	Carbon metabolism	RT	8	3	0.004900000	0.270000000
INTERPRO	Histone-fold	RT	8	3	0.005200000	0.230000000
INTERPRO	Peptidase S1A, chymotrypsin-type	RT	13	4.9	0.011000000	0.400000000
UP_KEYWORDS	Disulfide bond	RT	15	5.6	0.020000000	0.420000000
GOTERM_CC_DIRECT	mitochondrial inner membrane	RT	4	1.5	0.021000000	0.540000000
UP_KEYWORDS	Ligase	RT	8	3	0.026000000	0.440000000
SMART	S_TK_X	RT	3	1.1	0.028000000	0.730000000
GOTERM_MF_DIRECT	NADP binding	RT	3	1.1	0.028000000	0.680000000
GOTERM_CC_DIRECT	nucleosome	RT	7	2.6	0.029000000	0.420000000
UP_KEYWORDS	Ribosomal protein	RT	10	3.8	0.032000000	0.440000000
INTERPRO	Polynucleotide kinase 3 phosphatase	RT	2	0.8	0.034000000	0.760000000
INTERPRO	Isocitrate and isopropylmalate dehydrogenases family	RT	2	0.8	0.034000000	0.760000000
INTERPRO	Isocitrate dehydrogenase NAD-dependent	RT	2	0.8	0.034000000	0.760000000

INTERPRO	HAD-superfamily hydrolase, subfamily IIIA	RT	2	0.8	0.0340000000	0.7600000000
INTERPRO	Polynucleotide 3'-phosphatase	RT	2	0.8	0.0340000000	0.7600000000
UP_KEYWORDS	Mitochondrion	RT	5	1.9	0.0340000000	0.4100000000
INTERPRO	HAD-like domain	RT	4	1.5	0.0350000000	0.7400000000
INTERPRO	Elongation factor, GTP-binding domain	RT	3	1.1	0.0370000000	0.7400000000
KEGG_PATHWAY	2-Oxocarboxylic acid metabolism	RT	3	1.1	0.0390000000	0.7100000000
GOTERM_MF_DIRECT	isocitrate dehydrogenase (NAD+) activity	RT	2	0.8	0.0400000000	0.7200000000
SMART	Tryp_SpC	RT	13	4.9	0.0410000000	0.7300000000
KEGG_PATHWAY	Biosynthesis of amino acids	RT	5	1.9	0.0420000000	0.5900000000
UP_KEYWORDS	Hydrolase	RT	21	7.9	0.0470000000	0.4700000000
INTERPRO	Peptidase S1	RT	13	4.9	0.0470000000	0.7900000000
GOTERM_MF_DIRECT	ligase activity	RT	6	2.3	0.0480000000	0.7000000000
INTERPRO	AGC-kinase, C-terminal	RT	3	1.1	0.0490000000	0.7900000000
UP_KEYWORDS	Serine protease	RT	6	2.3	0.0500000000	0.4600000000
KEGG_PATHWAY	Ribosome	RT	8	3	0.0510000000	0.5600000000
INTERPRO	Mitochondrial carrier domain	RT	4	1.5	0.0510000000	0.7800000000
INTERPRO	Mitochondrial substrate/solute carrier	RT	4	1.5	0.0510000000	0.7800000000
INTERPRO	Trypsin-like cysteine/serine peptidase domain	RT	13	4.9	0.0540000000	0.7700000000
GOTERM_BP_DIRECT	mitotic chromosome condensation	RT	3	1.1	0.0590000000	0.9900000000
INTERPRO	Forkhead-associated (FHA) domain	RT	3	1.1	0.0630000000	0.8100000000
INTERPRO	NOPS	RT	2	0.8	0.0670000000	0.8100000000
INTERPRO	GHMP kinase N-terminal domain	RT	2	0.8	0.0670000000	0.8100000000
INTERPRO	Isopropylmalate dehydrogenase-like domain	RT	2	0.8	0.0670000000	0.8100000000
SMART	SM01329	RT	2	0.8	0.0690000000	0.8100000000
UP_KEYWORDS	Ribonucleoprotein	RT	10	3.8	0.0710000000	0.5500000000
UP_KEYWORDS	Mitochondrion inner membrane	RT	3	1.1	0.0740000000	0.5300000000
UP_KEYWORDS	Protein biosynthesis	RT	6	2.3	0.0780000000	0.5200000000
INTERPRO	SMAD/FHA domain	RT	3	1.1	0.0820000000	0.8600000000
UP_KEYWORDS	Oxidoreductase	RT	9	3.4	0.0850000000	0.5200000000
KEGG_PATHWAY	beta-Alanine metabolism	RT	3	1.1	0.0890000000	0.6900000000

UP_KEYWORDS	Mitosis	RT	2	0.8	0.0940000000	0.5300000000
UP_KEYWORDS	Kinase	RT	11	4.1	0.0960000000	0.5100000000
KEGG_PATHWAY	Biosynthesis of antibiotics	RT	8	3	0.0970000000	0.6600000000
INTERPRO	Mevalonate/galactokinase	RT	2	0.8	0.0980000000	0.9000000000
INTERPRO	SKP1 component, POZ	RT	2	0.8	0.0980000000	0.9000000000
INTERPRO	Aspartic peptidase	RT	2	0.8	0.0980000000	0.9000000000

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