

Table S3. List of genes downregulated in *otd*; *Pph13* at 72 hours APF

Gene	GO description	Microarray data	
		Fold change	P-value
Phototransduction/rhabdomere development			
<i>ninaC</i>	Protein kinase and motor activity	-3.89	0
<i>Gβ76C</i>	GTPase activity	-3.21	0.00016
<i>Arr2</i>	Metarhodopsin binding	-2.48	0.00038
<i>trp</i>	Calcium channel activity	-2.25	0.00066
<i>Cpn</i>	Calcium ion binding	-2.72	0.00095
<i>inaD</i>	Calmodulin binding	-2.37	0.00106
Phagocytosis, defense			
<i>CG10233</i>	Engulfment of apoptotic cell	-3.11	4.00E-05
<i>Sr-CI</i>	Polysaccharide binding	-2.93	0.00058
<i>TotB</i>	Stress response	-2.29	6.00E-04
Structural component			
<i>Pcp</i>	Structural constituent of chitin	-3.38	8.00E-05
<i>Cpr49Aa</i>	Structural constituent of chitin	-3.33	0.00104
<i>Edg78E</i>	Structural constituent of chitin	-2.55	0.00251
<i>Cpr76Bb</i>	Structural constituent of chitin	-2.44	0.00463
Enzymes with unknown biological process			
<i>CG8889</i>	Hydrolase	-2.68	0.00021
<i>CG31313</i>	Cysteine-type endopeptidase inhibitor activity	-2.44	0.00026
<i>Cpr49Ab</i>	ATP binding/catalytic activity		
<i>GstD7</i>	Glutathione transferase activity	-2.08	0.00275
Other			
<i>CG12120</i>	Visual perception	-2.29	3.00E-04
<i>CG31839</i>	Mesoderm development	-2.69	0.00036
<i>MtnA</i>	Metal ion binding	-2.22	0.00132
<i>CG33225</i>	mRNA splicing	-2.31	0.00896
Unknown			
<i>CG5172</i>	Unknown	-2.64	0.00022
<i>Pu</i>	Unknown	-2.61	0.00024
<i>CG13721</i>	Unknown	-2.86	0.00025
<i>Osi15</i>	Unknown	-2.86	0.00027
<i>CG4329</i>	Unknown	-2.15	0.00044
<i>CG11786</i>	Unknown	-2.69	0.00049
<i>CG4842</i>	Unknown	-2.59	0.00049
<i>CG13641</i>	Unknown	-2.25	0.00049
<i>Osi9</i>	Unknown	-2.53	0.00064
<i>msta</i>	Unknown	-2.88	0.00068
<i>CG13647</i>	Unknown	-2.75	0.00076
<i>CG30148</i>	Unknown	-2.11	0.00104
<i>Osi19</i>	Unknown	-2.54	0.00153
<i>CG10953</i>	Unknown	-2.67	0.0026
<i>Osi18</i>	Unknown	-2.33	0.00495
<i>CG15908</i>	Unknown	-2.53	0.00993