

**Table S3 Gene ontology of genes in tolerance region**

<b>CG</b>	<b>Symbol</b>	<b>Gene Ontology Terms</b>
CG10287	<i>Gasp</i>	Chitin binding and metabolic process; structural component of peritrophiv membrane
CG15582	<i>Obp83cd</i>	Odorant binding; sensory perception of chemical stimulus
CG31557	<i>Obp83ef</i>	Odorant binding; sensory perception of chemical stimulus
CG31558	<i>Obp83g</i>	Odorant binding; sensory perception of chemical stimulus
CG1076	<i>Vha14-2</i>	Hydrogen-exporting ATPase activity, phosphorylative mechanism
CG31559	CG31559	Electron carrier activity; protein disulfide oxidoreductase activity
CG1077	CG1077	Protease inhibitor
CG15585	<i>Osi1</i>	Unknown function; protein features similar to DUF1676; integral to plasma membrane
CG31562	CG31562	Unknown function; protein features similar to DUF227, CHK kinase-like
CG1147	<i>NPFR1</i>	Neuropeptide F, Y, and tachykinin receptor activity; GPCR signaling pathway
CG15589	<i>Osi24</i>	Unknown function
CG1148	<i>Osi2</i>	Unknown function; protein features similar to DUF1676; integral to plasma membrane
CG1150	<i>Osi3</i>	Unknown function; protein features similar to DUF1676; integral to plasma membrane
CG10303	<i>Osi4</i>	Unknown function; integral to plasma membrane
CG15590	<i>Osi5</i>	Unknown function; integral to plasma membrane
CG1151	<i>Osi6</i>	Unknown function; protein features similar to DUF1676
CG1153	<i>Osi7</i>	Unknown function; protein features similar to DUF1676; integral to plasma membrane
CG15591	<i>Osi8</i>	Unknown function; integral to plasma membrane