

**Biology, physiology and gene expression of grasshopper *Oedaleus asiaticus* exposed to diet stress from plant secondary compounds**

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**Table S1 Designed sequences of qRT-PCR primers for the six genes**

Grass species	Sequence of primers for real-time PCR (5' to 3')	
Cuticle protein 6 <i>gLCP</i>	Forward	AGTGTAAGTACTGAGCGCTCTGG
	Reverse	GTCTCCATCTCTTTCGCAGT
TPA_exp: chymotrypsin 2 <i>gCHY</i>	Forward	ACGCCAACATCGCCAACTA
	Reverse	ACGGTGTCGCTGTTGTAGGA
alpha-glucosidase <i>gALP</i>	Forward	CCATCATTTCAGCAGTTCCG
	Reverse	CAATCACCCAGTTGGACCAC
UDP- glucuronosyltransferase 2C1 <i>gUDP</i>	Forward	TGATACCACCGCCACATTC
	Reverse	AACCCACTGAGGTCCGTCAT
cytochrome P450 6K1 <i>gP450</i>	Forward	CCTTCTTGCTGGCTATGAAAC
	Reverse	CCACATCAATGGTCACTTCTG
Carboxylesterase <i>gCAT</i>	Forward	ACAGTGGCATCTCGGATG
	Reverse	TCAGTCGGCGATGTGGAG