

Appendix A Primers for RT-qPCR.

Primer name	Forward Sequences (5' to 3')	Reverse Sequences (5' to 3')
16S rRNA	ACAATGGGCGAAAGCCTGAT	GGTGCTTCTTCTGCGGGTAA
EF1-alpha	GTCGTGGTTCAAGGGATGGA	GAGACGGAGAGCCTTGTCAG
β -actin	CCGAAAAGCTGTCATAATGAAGACC	GGTGAAACCTTGTCTACTGTTACATCTTG
P450	TCTCTTCGCGCAGTTTGTCT	GGACATAGTCGGAAACGCGA
UGT1	GATGAAGACGATGCGGGACT	CTGGGGAGCCATTACGTCAG
UGT2	GGTGTACTGTTCGACGCTGA	CGGTGATGAAGTGCGTGTTG
AAT1	TTTCCACTGCCTCGCATCTT	GGCGAAAACCTCCGCAAATGA
AAT2	CACGGTGAAGAAGACCGTCA	ATGCAGGCGGTGACTTTACA
HSP1	GACTTCGACAACCGACTGGT	ACGTTCTCTTAGCCCCGTTTCG
HSP2	TTGGATCTTGGGCTTCCAC	TCCCGTCAATACGGTGTTTCG
CathB1	GATGCTGCCGTACGTTAGGT	ATACATGCGCGGGTAAACCA
CathB2	ATGCCGTGAAGTTGATCGGT	GCATTCGTTTCGTTCCCTCGTC
APP D1	AAAAACAGGCGAGCCCAATG	AGGTAAGCTTGGATCCGCTT
APP D2	TTACTTCCGCAAGACGGACC	AGTAGCGCGTGTTTCAGTTCA
Lipase 3	TCATCCACCACGGCATTCTC	TAAGTGTTACCGCGGCAGTT

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Appendix B Result of gene annotation.

	Number of Genes	Percentage (%)
Annotated in NR	13640	39.84
Annotated in NT	16633	48.58
Annotated in KO	5555	16.22
Annotated in SwissProt	8992	26.26
Annotated in PFAM	10760	31.42
Annotated in GO	10760	31.42
Annotated in KOG	5559	16.23
Annotated in all Databases	3662	10.69
Annotated in at least one Database	19102	55.79
Total Unigenes	34236	100

Appendix C Species distribution of unigene in Nr library.

