

**Supplemental Table 1. Oligonucleotides for amplification and sequencing of dog erythroid Ael cDNA.**

OLIGO	SEQUENCE	Dir	Location	USE	Position in RefSeq (b)	Amplicon length
dAe1.E2F	5'-TGCGGGTTATGCTGGGGGCTTGG-3'	For	Exon 2	PCR-1 and Seq	28-50	1,372 bp
dAe1.E12R	5'-TCTGGTTCTGGGTCTTTTCTCC-3'	Rev	Exon 12	PCR-1 and Seq	1420-1399	
dAe1.E7F	5'-TCACAGCCTCTGCTCCCCCA-3'	For	Exon 7	Seq of PCR-1	655-674	
dAe1.E8R2	5'-CTAGATGGTGAATCCTCTGTGC-3'	Rev	Exon 8	Seq of PCR-1	743-722	
dAe1.E11F	5'-ACGACCCTCTGCAGCGGACAG-3'	For	Exon 11	PCR-2 and Seq	1223-1243	1,257 bp
dAe1.E18R	5'-GTAGAGGAAGATGCCAAACAG-3'	Rev	Exon 18	PCR-2 and Seq	2499-2479	
dAe1.F14F	5'-ACAGCCCTCCTCTCTTGTGC-3'	For	Exon 14	PCR-3 and Seq	1825-1846	1,098 bp
dAe1.3R1	5'-TCTGCTTTTCCTGGGAGAGTGG-3'	Rev	Exon 20 (a)	PCR-3 and Seq	2901-2922	
dAe1.E14R	5'-AGGAGCTGTTCTTGAACCTGC-3'	Rev	Exon 14	Seq of PCR-2,3	1903-1883	
dAe1.E17F	5'-ATGCCCTGGCTCAGTGCCACCAC-3'	For	Exon 17	Seq of PCR-3	2278-2300	

(a) 3'-UTR of the dog erythroid Ael mRNA.

(b) Dog erythroid Ael cDNA RefSeq NM\_001048031

**Supplemental Table 2. Oligonucleotides for amplification and sequencing of dog RhAG cDNA.**

OLIGO	SEQUENCE	Dir	Location	Use (a)	Position in RefSeq (b)	Amplicon Length
dRhAG.5F1	5'-GAAGCCCTCAGTGTGCCTCTG-3'	For	5'-UTR	<b>PCR-1,3, Seq</b>	1-21	759 bp
dRhAG.F1	5'-GAAGGAAGAGTCTGAGTACCAC-3'	For	coding	Seq	633-654	
dRhAG.F2	5'-CCAACCCAAATGCTGATCATGAC-3'	For	coding	PCR-2, Seq	448-470	911 bp
dRhAG.R1	5'-TATGATGGCCAGGTACTGTTCC-3'	Rev	coding	PCR-1, Seq	759-738	759 bp
dRhAG.R2	5'-TAAACCTGTGATCAGCCCTCCAG-3'	Rev	coding	Seq	1182-1160	
dRhAG.3R1	5'-GATAATGGGAAAGGAAGCCGAG-3'	Rev	3'-UTR	<b>PCR-2,3, Seq</b>	1358-1337	<b>1,358 bp (a)</b>

(a) **In Bold** – oligos used for amplification and cloning.

(b) Dog RhAG cDNA RefSeq NM\_001110768

**Supplemental Table 3. Oligonucleotides for amplification and sequencing of dog Glut1 cDNA.**

OLIGO	SEQUENCE	Dir	Location	Use	Position in RefSeq (b)	Amplicon Length
dGlut1.5F1	5'-CACYCGGYGCTCGYGGAGCCTC-3'	For	5'-UTR (a)	PCR-1, Seq	255-276 (a)	859 bp
dGlut1.F1	5'-ATGGAGCCCGGCAGCAAGAAGCTG-3'	For	coding	PCR-1a, Seq	1-24	822bp
dGlut1.E6R	5'-GATGAGGATGGGCTGGCGGTAGG-3'	Rev	coding	PCR-1,1a, Seq	822-800	
dGlut1.E4R	5'-AGGCCAGCAGGTTTCATCATCAGC-3'	Rev	coding	Seq of PCR-1	310-288	
dGlut1.E6F	5'-AGAGTCGGCAGATGATGCGGGAG-3'	For	coding	PCR-2, Seq	740-762	793 bp
dGlut1.3R1	5'-TCKCATCCAGCTGCCTGTGCTCC-3'	Rev	3'-UTR	PCR-2 Seq	1554-1532	

- (a) Dog genomic sequence AAEX02020677  
(b) Dog Glut1 cDNA RefSeq NM\_001159326