

CRISPR/Cas9 Oligomers (sgRNA sequence)

Lab No.	Description	Sequence
7993	Universal reverse primer for CRISPR/Cas9 plasmid.	5'-CAAGACATCTCGCAATAGGA-3'
7992	Forward primer for pCK001	5'- CTTATGAAGCAGTCTCTTA GTTTTAGAGCTAGAAATAGCAAG-3'
8078	Forward primer for pCK023	5'- GGATCGCCGAGCTTCAACC GTTTTAGAGCTAGAAATAGCAAGT-3'

Oligomers used for cloning of W01A8.1 and human perilipins

Lab No.	Description	Sequence
7957	Start of first exon of W01A8.1 gene	5'-ATGACTGACGTTCGAGCAGCCAGTA-3'
7958	Reverse primer used with 7957 to amplify RNAi targeting region	5'-TGAGCTGCTCAAGATAATTACGGGC-3'
7953	Forward primer with HindIII site, positioned at ~1kb upstream of ATG of <i>W01A8.1</i>	5'-CCCAAGCTTGACCTTCAGTATCGGAGAAAATCGC -3'
7954	Reverse primer with BamHI site, positioned at the codon of <i>W01A8.1a</i> sequence	5'-CGGGATCCGGCAGCATTCTTATACAAGTTTCTTG-3'
7955	Nested A' primer used for SOEing PCR, positioned downstream of oligomer #7953 location	5'-TTATCAACTATTCGCCGGTCGGA-3'
7956	Fusion PCR primer B for isoform a and c of <i>W01A8.1</i> gene	5'-AGTCGACCTGCAGGCATGCAAGCT GGCAGATTCTTATACAAGTTTCTTG-3'
8044	Fusion PCR primer B for isoform b of <i>W01A8.1</i> gene	5'-AGTCGACCTGCAGGCATGCAAGCT TTCGGTTTGTTGACGAACCAAAAGG-3'
7986	Forward primer to linearize pPD95.77(NeoR)	5'-GGATCCCCGGGATTGGCC -3'
7987	Reverse primer to linearize pPD95.77(NeoR)	5'-CTTTCTTGCTGCAAACAATCAATTGATAAAATG-3'
8045	Reverse primer for isoform b	5'-TTCGGTTTGTTGACGAACCAAAAGGC-3'
8061	Reverse primer for isoform a/c	5'-GGCAGATTCTTATACAAGTTTCTTGTG-3'
8035	Forward Plin 2 primer with overhang for pPD95.77(NeoR) vector	5'- TATCATTTTATCAATTGATTGTTTGCAGCAAGAAAGATGGC ATCCGTTGCAGTTGATCC-3'
8036	Forward Plin 2 primer with overhang for pPD95.77(NeoR) vector	5'- TACCTTTGGGTCCTTTGGCCAATCCCGGGGATCCATGAGTT TTATGCTCAGATCGCTGGG-3'
7988	Forward Plin 3 primer with overhang for pPD95.77(NeoR) vector	5'- TTTATCAATTGATTGTTTGCAGCAAGAAAGATGTCTGCCGA CGGGGCAGA-3'
7991	Forward Plin 3 primer with overhang for pPD95.77(NeoR) vector	5'- TTTGGGTCCTTTGGCCAATCCCGGGGATCCCTTCTTCTCCTC CGGGGCTTCTC-3'
8134	Forward PCR primer for amplification of the genomic region including the deleted segment	5'- CGTACAAACGGTATTTTTATATCGCTTCCAAAATCTTCGTT TC-3'
8135	Reverse PCR primer for amplification of the genomic region including the deleted segment	5'-TAACCTAGGTCGAGGGATTTTGGACTTTTAAAGAATGG-3'
8136	Forward nested primer for sequencing of the genomic region including the deleted segment	5'-TTTATTTTCAGGCAATCAATGCATAC-3'
8137	Reverse nested primer for sequencing of the	5'-GGTGATATAGTAGAACAGGTCAAGTCG-3'

	genomic region including the deleted segment	
8140	Forward synthetic screening primer	5'-TTCGGCTAAGAAGCTCGGATCGTCG-3'
8141	Reverse synthetic screening primer	5'-CACATCTTCGGCGTCGGTAAAATTTTT-3'

Quantitative RT-PCR oligomers and probes

Lab No.	qPCR Primer Set	Probe	Description
8006	5'-ATTGCGTGAGAAGGGACAAAAC-3'	Roche qPCR probe 22	Exon spanning primer set amplifies W01A8.1 transcript
8007	5'-TGTGAAGTTCTTCTTCAAGTTCTCC-3'		
7961	5'-AGTCGGTGTGCGAAGGAGCA-3'	Roche qPCR probe 133	Exon spanning primer set amplifies <i>ama-1</i> transcript
7962	5'-GATAGCGACCGCATCCACCT-3'		

The primers are listed in the order that they were used.