

Supplementary Information

Table S1. Primer Design

Pathway	Gene	Accession #	Forward Primer (5' → 3')	Reverse Primer (5' → 3')
ROS Regulation	SOD1	NM_011434	CGGATGAAGAGAGGCATGTTG GA	CAATGATGGAATGCTCTCCTGAG
	SOD2	NM_013671	TTACGACTATGGCGCGCTGGA	TCGTGGTACTTCTCCTCGGTG
	SOD3	NM_011435	GGCCTGTGGCTCTGTCACC	CCTATCTTCTCAACCAGGTCAAG
	Catalase	NM_009804	CCTGACATGGTCTGGGAC	CCATAGCCATTCATGTGCCG
	GPX1	NM_008160	GGTGCTGCTCATTGAGAATGT CG	GGGAAACCGAGCACCACCAG
Cortisol Regulation	HSD11β1	NM_0010447 51	GAAGAGTTCAGACCAGAAATG CT	CAATACCACATGGGCTCCCATT
	HSD11β2	NM_008289	TCTTTGGTGCACCTTGAGCTGAC C	AGGCTGCCAAGCAGGGGTATG
	GR	NM_0013612 09	AGGCCGCTCAGTGTTTTCTA	TACAGCTTCCACACGTCAGC
Cell Cycle	BTG2	NM_007393. 3	GGCTGTATCCCCCTCCATCG	CCAGTTGGTAACAATGCCATGT
DNA Damage & Tumor Suppression	γH2AX	NM_010436	GCCTCTCAGGAGTACTGAGGG	CCCGAAGTGGCTCAGCTCTTT
	p53	AB020317	GGAAGACTCCAGTGGAACC	TCTTCTGTACGGCGGTCTCT
	GADD45A	NM_007836	GAAAGGATGGACACGGTGGG	GGGTCTACGTTGAGCAGC
	DDB2	NM_028119. 5	ACCGAGTACGTCATGGCTCCC	CTTGGCTTCGGGCTCCAGCT
	MDM2	NM_0012885 86	CCTGGATCAGGATTCAGTTTCT G	TCATCATCCTCATCTGAGAGCTC
DNA Methylation	DNMT3A	NM_007872	GAGGGAAGTCTGAGACCCAC	CTGGAAGGTGAGTCTTGGCA
	DNMT3B	NM_0011229 97	AGCGGGTATGAGGAGTGCAT	GGGAGCATCCTTCGTGTCTG
	DNMT1	NM_0011994 33	AAGCCTGGTGTTGTCTACCGA C	CATCCAGGTTGCTCCCCTTG
Circadian Rhythm	Per2	NM_011066	ACAAGAAGGCCAAGGGGAAG G	GGCTCTACTGGACATTAGCAG
Synaptic Activity	Doublecortin	NM_0011102 22	ATGTCAACCGGGAAGCACA	TGGTGGAACCACAGCAACTT
	NeuN	NM_0010391 68	GGCAAATGTTTCGGCAATTCTG	TCAATTTTCCGTCCCTCTACGAT
	NeuroD	NM_010894. 2	ATGACCAAATCATACAGCGAG AG	TCTGCCTCGTGTTCCTCGT
	PSD-95	NM_007864. 3	GGCGGAGAGGAACTTGTC	AGAATTGGCCTTGAGGGAGGA
	Synaptophysin	NM_009305. 2	CAGTTCGGGTGGTCAAGG	ACTCTCCGTCTGTGTCAC
	NOS3	NM_008713	TTTGCTGCCCTTGGCCTGCG	CTCTGAACTCATGTACCAGCCG
	NRF2	NM_010902	CAGCACATCCAGACAGACACC A	TGGGAATGTCTCTGCCAAAAGCT
Microglia	TMEM119	NM_146162	TTCACCCAGAGCTGGTTCCAT A	GAGTGACACAGAGTAGGCCA
Apoptosis	CX3CR1	NM_009987. 4	TCACCGTCATCAGCATCGAC	CGCCCAGACTAATGGTGACA
	BAX	NM_007527	CTGGATCCAAGACCAGGGTG	GTGAGGACTCCAGCCACAAA
	BCL2	NM_009741	GCGTCAACAGGGAGATGTCA	GCATGCTGGGGCCATATAGT
	APAF1	NM_0012829 47.1	CGTCTTCCAGTGTAAGGACAG T	CCATAGATGGTGACCCACCC
Reference Genes	Beta Actin	NM_007393. 3	GGCTGTATCCCCCTCCATCG	CCAGTTGGTAACAATGCCATGT

	RPL29	NM_009082. 2	ACATGGCCAAGTCCAAGAAC	TGCATCTTCTTCAGGCCTTT
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All primers listed were designed using Primer Bank, Primer3, Primer3Plus, or Gemi. Annealing temperature was 58 degrees Celsius.