

Supplementary Table 1. Sequences of the primers used for Real-Time PCR.

Gene name	Genbank	Forward	Reverse
ChAT	NC_005115	GCCTGCTGCAACCAGTTCTT	TCGTTGGACGCCATTTTGA
CarAT	NM_001004085	ATTGTCGCTCTTGTGGACC	TCTGTTTGGCCTTCTCTATGTC
VACht	X80395	GCCACATCGTTCACTCTCTTG	CGGTTTCATCAAGCAACACATC
AChE	S50879	CTTCTCCCACACCTGTCC	CTGCTTCCTGGTAGAGCC
BChE	NM_022942	ACCTAACCTTGAACACAGAGAAG	TTCCACTCTTGCTCCCTTTC
CHT1	NC_005108	ATGGAACCTTGCTGATAGGATGGA	ATGATTCTCCCGATTGTTCTACAG
OCTN2	NM_019269	CGATCCCAGTGAGTTACAAGAC	GAGAAAGTCCGAAGTAGCCC
OCT1	NM_012697	TGGCCGTAAGCTCTGTCTCT	TCAAGGTATAGCCGGACACC
OCT2	NM_031584	ATGCTGGACCTGTTTCAGTC	AGAAATCGCCATGAGAGCC
OCT3	NM_019230	CAATGGGAAACACCTCTCGT	ATACACCACGGCACTTGTGA
SLC22a4	NM_022270	CTGGGAGTACAGCAAGGA	GAAGGAGCCACAGAGAAC
SLC25a20	NM_053965	AACCCATCAGTCCGCTTAAG	TGGTCCCAGAGTACATAGGTG
SLC25a29	NM_001010958	CCCGAGGAGTAGTAGGACTCAG	CACAATCACACCTGCCACA
SLC22a8	NM_031332	AGCACCAGAGACACCATTG	ACAGTTCTCCAATCACAGGTC
α 1	NM_024485	GTCACCCACTTTCCCTTCGA	CAGGTCGGGCTGGTCACTT
α 2	NM_133420	CGCTGGTCATCCCCTCAT	GGGAGCGGTGGTGTACATTG
α 3	NM_052805	TCCAGTTTGAGGTGTCCATG	CTTGGTAGTCAGAGGGTTTCC
α 4	NM_024354.1	CGCATCCCCTCTGAACTCAT	CACTGCACCCTTCCGTCATA
α 5	NM_017078	TGGACGCAACCAGCAAACATA	TATGTCCACGAGCCGAATTTTC
α 7	AY574256	GCTGGTTCCCTTTTGATG	CTCCGTTGGGGATATAGC
α 9	RRU12336	CGCGGTGCTGAATGTTACAC	GTACGCATCGTGCCAGGTTT
α 10	AF196344	CAGTCTCTCCCCAAAGTG	GAGGTGGGCTTTAGATCC
β 1	X74833	TGGTTGTGGACCGTCTTTTTTC	ATGACCCGAGGGTCCTCAAG
β 2	L31622	TTCTGCTGCTCATCTCCAA	CGCTGGTGACGATGGAGAA
β 3	NM_133597.1	TGAAACACTCTGCGCTTGA	TCCTGCAGTGGCCGTAAGA
β 4	AY574260	TGCTGGCACTCACGTTCTTC	AAGGTGACCAGCACCATGGT
delta	NM_019298	GCTCCCTCAAATTCAGTTCAC	ACTATTTCCCACTCACCGTTC
epsilon	NM_017194	CAATGTTCTGGTCTATGAGGGAG	CTTCAGCATTGTAGGTCTGGG
gamma	NM_019145	CACCTACTTCCCCTTCGATTG	ATTCTCTGTGAAAGCCTCGG
M1	NM_080773	TGGTTTCCTTCGTTCTCTGG	GAGGAACTGGATGTAGCACTG
M2	J03025	CCACTCCAGAGATGACAACCT	GGCTACAACGTTCTGCTTT
M3	M16407	GGAAGTGGATGTGGAGAG	CGAGGAGTTGGTGTGAGA
M4	NM_031547	CCCGCCGCACTACTAAGATG	CCTCTTGCCCACCACAAACT
M5	M22926	CAGCTGCTGCTCACAGACTCA	GGGAAGGAACAGGGCATGAT
RANKL	NM_057149	AGCGCTTCTCAGGAGTTCCA	GCCGGGCCACATCGA

OPG	U94330.1	GCTGGCACACGAGTGATGAA	CGGTCTGCAGTTCCTTGCA
β -actin	NM_031144	CTTCAACACCCCAGCCATGT	CAGAGGCATACAGGGACAACA
18S	M11188	GCGGTTCTATTTGTTGG	AATGCTTTCGCTCTGGTC

Supplementary Table 2. Statistical data from Real-Time PCR results.

Gene	2- $\Delta\Delta$ Ct (Mean \pm SD)				p-value
	C	E1	E3	E7	
OPG	0.668 \pm 0.311	0.900 \pm 0.418	0.776 \pm 0.381	0.161 \pm 0.087	0.187
RANKL	0.651 \pm 0.357	11.015 \pm 1.302	0.229 \pm 0.050	0.183 \pm 0.126	0.102
RANKL/OPG	0.928 \pm 0.270	8.354 \pm 0.624	0.348 \pm 0.162	1.034 \pm 0.320	0.014*
AChE	0.740 \pm 0.233	0.006 \pm 0.068	0.065 \pm 0.012	14.562 \pm 11.347	0.007*
BChE	0.645 \pm 0.242	0.066 \pm 0.049	0.132 \pm 0.206	3.882 \pm 1.610	0.000*
CarAT	0.520 \pm 0.321	0.197 \pm 0.281	0.150 \pm 0.218	0.205 \pm 0.032	0.218
VChT	0.702 \pm 0.224	0.007 \pm 0.008	0.034 \pm 0.010	11.769 \pm 10.938	0.012*
SLC22a4	0.717 \pm 0.208	0.060 \pm 0.054	0.260 \pm 0.263	6.610 \pm 5.506	0.009*
OCT1	0.616 \pm 0.325	0.006 \pm 0.045	0.020 \pm 0.021	26.990 \pm 17.263	0.009*
OCT3	0.486 \pm 0.381	0.019 \pm 0.095	0.076 \pm 0.115	1.487 \pm 0.810	0.025*
SLC25a20	0.497 \pm 0.348	0.026 \pm 0.017	0.289 \pm 0.438	0.227 \pm 0.083	0.090
nAChR α 1	0.807 \pm 0.224	0.005 \pm 0.003	0.100 \pm 0.098	35.44 \pm 7.32	0.011*
nAChR α 2	0.620 \pm 0.294	0.010 \pm 0.0098	0.041 \pm 0.022	13.644 \pm 16.194	0.003*
nAChR α 3	0.415 \pm 0.409	0.064 \pm 0.070	0.076 \pm 0.078	2.917 \pm 2.242	0.027*
nAChR α 5	0.856 \pm 0.124	0.050 \pm 0.050	0.223 \pm 0.108	24.474 \pm 14.315	0.012*
nAChR α 7	0.663 \pm 0.260	0.061 \pm 0.027	0.197 \pm 0.146	32.164 \pm 33.129	0.014*
nAChR α 10	0.459 \pm 0.370	0.066 \pm 0.094	0.029 \pm 0.024	15.363 \pm 15.908	0.012*
nAChR β 1	0.617 \pm 0.287	0.046 \pm 0.040	0.162 \pm 0.164	24.120 \pm 19.109	0.009*
nAChR β 2	0.702 \pm 0.335	0.023 \pm 0.012	0.258 \pm 0.198	11.771 \pm 17.588	0.013*
nAChR β 4	0.422 \pm 0.392	0.993 \pm 0.917	4.999 \pm 6.654	5.325 \pm 7.679	0.432
nAChR γ	0.692 \pm 0.318	0.006 \pm 0.0075	0.0003 \pm 0.0005	1.183 \pm 0.080	0.011*
mAChR 1	0.631 \pm 0.332	0.056 \pm 0.092	0.426 \pm 0.472	14.472 \pm 16.859	0.021*
mAChR 2	0.438 \pm 0.354	0.058 \pm 0.084	0.039 \pm 0.033	7.000 \pm 5.898	0.007*
mAChR 3	0.779 \pm 0.165	0.051 \pm 0.068	0.097 \pm 0.088	22.186 \pm 22.227	0.009*
mAChR 4	0.773 \pm 0.245	0.029 \pm 0.045	0.103 \pm 0.149	16.180 \pm 17.270	0.009*
mAChR 5	0.576 \pm 0.337	0.022 \pm 0.010	0.143 \pm 0.078	19.734 \pm 17.805	0.009*

* statistically significant