

Supplementary Information

Table S1. Sample overview (A), RT-qPCR replicate overview, mean C_t -values, and standard deviation of C_t -values for each analyzed tissue and the reference, standard, and target genes Gapdh (B), Thra (C), Thrb (D), and Taar8b (E).

(A) Overview	CB	CX	HIP	STR	H	LIV	KID	THY	OB
total number of samples (mice)	12	12	10	12	13	13	13	8	8
number of female samples (mice)	6	6	5	6	6	6	6	5	5
number of male samples (mice)	6	6	5	6	7	7	7	3 ^a	3
number of technical replicates (TR)	3	3	3	3	3	3	3	2 or 3	3
(B) Gapdh	CB	CX	HIP	STR	H	LIV	KID	THY	OB
detectable in 3 of 3 TR	12	12	10	12	13	13	13	7	8
detectable in 2 of 2 TR	–	–	–	–	–	–	–	1	–
mean (C_t) ^b	18.53	18.17	18.35	18.02	18.36	18.89	18.30	23.30	18.10
StDev (C_t) ^c	0.56	0.81	0.90	0.76	1.17	0.42	0.48	1.03	0.61
(C) Thra	CB	CX	HIP	STR	H	LIV	KID	THY^d	OB
detectable in 3 of 3 TR	12	12	10	12	13	13	13	5	8
detectable in 2 of 2 TR	–	–	–	–	–	–	–	–	–
mean (C_t) ^b	22.37	21.48	21.31	21.92	25.03	27.12	24.74	29.09	21.67
StDev (C_t) ^c	0.49	0.51	0.68	0.43	0.78	0.37	0.28	0.86	0.45
(D) Thrb	CB	CX	HIP	STR	H	LIV	KID	THY^d	OB
detectable in 3 of 3 TR	12	12	10	12	13	13	13	5	8
detectable in 2 of 2 TR	–	–	–	–	–	–	–	–	–
mean (C_t) ^b	27.21	24.72	25.62	25.89	27.67	25.71	25.47	31.40	26.58
StDev (C_t) ^c	0.57	0.75	0.83	0.68	1.09	0.38	0.47	0.55	0.98
(E) Taar8b	CB	CX	HIP	STR	H	LIV	KID	THY	OB
detectable in 3 of 3 TR	0	1	1	0	0	0	0	0	1
detectable in 2 of 3 TR	0	0	0	1	1	2	0	0	0
detectable in 1 of 3 TR	2	1	0	1	3	3	3	0	4
detectable in 0 of 3 TR	10	10	9	10	9	8	10	7	3
detectable in 2 of 2 TR	–	–	–	–	–	–	–	0	–
detectable in 1 of 2 TR	–	–	–	–	–	–	–	0	–
detectable in 0 of 2 TR	–	–	–	–	–	–	–	1	–
mean (C_t) ^b	42.65	42.94	42.38	41.92	44.03	43.40	42.81	N/A (0 value)	42.38
StDev (C_t) ^c	N/A (2 values)	N/A (2 values)	N/A (1 value)	N/A (2 values)	3.41	0.87	0.51	N/A (0 value)	0.61

^a One sample consists of RNA-material from two mice mixed in equal proportions; ^b Mean C_t of samples for which a C_t was available; sample C_t defined as follows: (a) C_t of samples with detectable target in 3 or 2 of 3 TR and in 2 of 2 TR: mean of 2 or 3 TR-values per sample; (b) C_t of samples with detectable target in 1 of 3 TR and in 1 of 2 TR: single C_t value per sample; (c) samples with undetermined C_t in all TR were not taken into account; ^c StDev. calculated from sample C_t values which were used for calculation of mean C_t ; ^d Standard genes Thra and Thrb were not included in the analysis of three samples because of limited sample amount. CB, cerebellum; CX, cortex; HIP, hippocampus; STR, striatum; H, heart; LIV, liver; KID, kidney; THY, thyroid; OB, olfactory bulb; TR, technical replicate; C_t , threshold cycle; StDev, standard deviation; Gapdh, glyceraldehyde-3-phosphate dehydrogenase; Thra, thyroid hormone receptor alpha; Thrb, thyroid hormone receptor beta; Taar8b, trace amine-associated receptor 8B.

Table S2. Spectrophotometrical and electrophoretical RNA quality control using a NanoDrop ND-8000 photometer (NanoDrop Technologies, Wilmington, DE, USA) and an Agilent 2100 Bioanalyzer (Agilent Technologies Inc., Santa Clara, CA, USA). Values indicate the range from minimum to maximum QC result.

Items	CB	CX	HIP	STR	H	LIV	KID	THY	OB
after first DNase-treatment and cleanup (Qiagen RNase-free DNase-Set and Norgen RNA Clean-Up and Concentration Micro Kit)									
all samples									
number of samples	12	12	10	12	13	13	13	8	8
RNA integrity number (RIN)	6.0	7.7	8.3	8.2	7.9	8.1	7.9	7.6	8.4
	–	–	–	–	–	–	–	–	–
	8.8	8.6	8.8	8.6	8.7	8.9	8.9	9.2	8.7
after first DNase-treatment and cleanup (Qiagen RNase-free DNase-Set and Norgen RNA Clean-Up and Concentration Micro Kit)									
subset of samples which were negative for genomic DNA after first DNase treatment									
number of samples	4	8	6	9	7	12	4	-	5
A_{260}/A_{280} absorbance ratio	2.03	2.04	2.07	2.05	2.08	2.06	2.03	-	2.05
	–	–	–	–	–	–	–	–	–
	2.08	2.17	2.11	2.22	2.26	2.18	2.18		2.09
A_{260}/A_{230} absorbance ratio	2.0	1.87	1.82	1.78	1.9	1.27	2.03	-	2.05
	–	–	–	–	–	–	–	–	–
	2.4	2.26	2.16	2.25	2.19	2.26	2.15		2.42
after second DNase-treatment and inactivation (Ambion Turbo DNA-free Kit)									
subset of samples which were still positive for genomic DNA after first DNase treatment									
number of samples	8	4	4	3	4	1	9	8	3
A_{260}/A_{280} absorbance ratio	1.99	1.99	1.97	1.98	1.99		1.97	1.89	1.96
	–	–	–	–	–	2.02	–	–	–
	2.03	2.03	2.0	2.0	2.01		2.02	2.0	2.03
A_{260}/A_{230} absorbance ratio	1.73	1.7	1.54	1.74	1.69		1.5	0.96	1.34
	–	–	–	–	–	1.57	–	–	–
	1.78	1.75	1.69	1.77	1.78		1.8	1.53	1.64

CB, cerebellum; CX, cortex; HIP, hippocampus; STR, striatum; H, heart; LIV, liver; KID, kidney; THY, thyroid; OB, olfactory bulb.

Table S3. C_t -values of all technical replicates for all analyzed samples.

Sample ID	TR	Reference Gene <i>Gapdh</i>			Internal Positive Control 1			Internal Positive Control 2			Target Gene <i>Taar8b</i>			ΔC_t					
		C_t	Standard Gene <i>Thra</i>		C_t	Standard Gene <i>Thrb</i>		C_t	Standard Gene <i>Thrb</i>		C_t	Standard Gene <i>Thrb</i>		$C_t(\text{Thra})$	$C_t(\text{Thrb})$	$C_t(\text{Taar8b})$			
			Mean	StDev		CV/%	Mean		StDev	CV/%		Mean	StDev				CV/%	Mean	StDev
		(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)		
J652g_f_LIV	TR1	18.88			26.75			25.73			45.07								
	TR2	18.82	18.82	0.0555	0.29	26.66	26.69	0.0496	0.19	25.58	25.62	0.0896	0.35	undetermined	44.30		7.869	6.801	25.482
	TR3	18.77			26.67			25.56			43.54								
J718g_f_LIV	TR1	20.16			27.86			26.89			undetermined								
	TR2	20.17	20.17	0.0080	0.04	27.71	27.74	0.1064	0.38	26.74	26.79	0.0916	0.34	undetermined		7.576	6.620		
	TR3	20.18			27.66			26.73			undetermined								
J612_f_LIV	TR1	18.97			27.50			25.25			undetermined								
	TR2	18.97	18.99	0.0324	0.17	27.49	27.52	0.0466	0.17	25.28	25.30	0.0529	0.21	undetermined		8.536	6.310		
	TR3	19.02			27.58			25.35			undetermined								
J525_f_LIV	TR1	18.84			27.24			25.83			undetermined								
	TR2	18.82	18.79	0.0668	0.36	27.13	27.16	0.0740	0.27	25.72	25.71	0.1220	0.47	undetermined	42.77		8.364	6.920	23.980
	TR3	18.72			27.09			25.58			42.77								
J522a_f_LIV	TR1	18.60			27.13			25.74			undetermined								
	TR2	18.56	18.57	0.0288	0.16	27.10	27.10	0.0369	0.14	25.63	25.81	0.2258	0.87	undetermined		8.533	7.248		
	TR3	18.54			27.06			26.07			undetermined								
J331_f_LIV	TR1	18.61			26.61			25.50			undetermined								
	TR2	18.60	18.60	0.0023	0.01	26.54	26.57	0.0354	0.13	25.58	25.51	0.0685	0.27	undetermined	44.24		7.966	6.904	25.640
	TR3	18.60			26.55			25.44			44.24								
J302_m_LIV	TR1	19.01			27.42			26.00			undetermined								
	TR2	19.02	19.00	0.0183	0.10	27.41	27.39	0.0409	0.15	26.00	25.95	0.0792	0.30	42.34	42.34		8.391	6.949	23.338
	TR3	18.98			27.35			25.86			undetermined								
J303_m_LIV	TR1	18.99			27.07			25.69			undetermined								
	TR2	18.96	18.98	0.0119	0.06	27.17	27.12	0.0522	0.19	25.57	25.57	0.1273	0.50	undetermined		8.142	6.589		
	TR3	18.98			27.12			25.44			undetermined								

Table S3. Cont.

Sample ID	TR	Reference Gene <i>Gapdh</i>			Internal Positive Control 1			Internal Positive Control 2			Target Gene <i>Taar8b</i>			ΔC_t					
		C_t	Mean	StDev	CV/%	C_t	Mean	StDev	CV/%	C_t	Mean	StDev	CV/%	C_t	Mean	StDev	CV/%		
			(C _t)	(C _t)	(C _t)		(C _t)	(C _t)	(C _t)		(C _t)	(C _t)	(C _t)		(C _t)	(C _t)	(C _t)	(C _t)	(C _t)
J304_m_LIV	TR1	18.70				27.29				25.71				43.33					
	TR2	18.69	18.67	0.0367	0.20	27.25	27.23	0.0679	0.25	25.62	25.64	0.0611	0.24	43.32	43.33		8.565	6.971	24.655
	TR3	18.63				27.16				25.59				undetermined					
J305_m_LIV	TR1	18.95				27.27				25.44				undetermined					
	TR2	18.93	18.94	0.0098	0.05	27.32	27.27	0.0463	0.17	25.23	25.28	0.1427	0.56	undetermined			8.326	6.331	
	TR3	18.95				27.22				25.16				undetermined					
J199_m_LIV	TR1	18.60				26.72				25.48				undetermined					
	TR2	18.65	18.66	0.0677	0.36	26.83	26.77	0.0533	0.20	25.51	25.51	0.0347	0.14	undetermined			8.110	6.853	
	TR3	18.74				26.77				25.55				undetermined					
11_m_LIV_2013	TR1	18.75				26.62				25.84				undetermined					
	TR2	18.78	18.74	0.0425	0.23	26.63	26.61	0.0314	0.12	25.65	25.70	0.1206	0.47	undetermined			7.865	6.959	
	TR3	18.70				26.57				25.61				undetermined					
12_m_LIV_2013	TR1	18.56				27.39				25.77				undetermined					
	TR2	18.60	18.58	0.0205	0.11	27.33	27.38	0.0374	0.14	25.83	25.81	0.0366	0.14	undetermined			8.791	7.222	
	TR3	18.60				27.40				25.82				undetermined					
J652g_f_KID	TR1	17.83				24.39				24.98				undetermined					
	TR2	17.77	17.79	0.0284	0.16	24.26	24.27	0.1149	0.47	24.86	24.87	0.0957	0.38	undetermined			6.475	7.081	
	TR3	17.78				24.16				24.78				undetermined					
J718g_f_KID	TR1	18.56				24.53				25.67				undetermined					
	TR2	18.61	18.60	0.0328	0.18	24.56	24.57	0.0507	0.21	25.68	25.71	0.0637	0.25	43.39	43.39		5.977	7.117	24.792
	TR3	18.62				24.63				25.79				undetermined					
J612_f_KID	TR1	18.82				24.73				26.06				undetermined					
	TR2	18.82	18.79	0.0459	0.24	24.71	24.70	0.0342	0.14	25.99	26.00	0.0528	0.20	undetermined			5.905	7.206	
	TR3	18.74				24.66				25.95				undetermined					

Table S3. Cont.

Sample ID	TR	Reference Gene <i>Gapdh</i>				Internal Positive Control 1				Internal Positive Control 2				Target Gene <i>Taar8b</i>				ΔC_t		
		C_t	Mean	StDev	CV/%	C_t	Mean	StDev	CV/%	C_t	Mean	StDev	CV/%	C_t	Mean	StDev	CV/%	$C_t(\text{Thra})$	$C_t(\text{Thrb})$	$C_t(\text{Taar8b})$
			(C _t)	(C _t)	(C _t)		(C _t)	(C _t)	(C _t)		(C _t)	(C _t)	(C _t)		(C _t)	(C _t)	(C _t)	(C _t)	(C _t)	(C _t)
J525_f_KID	TR1	17.69				24.73				25.13				42.63						
	TR2	17.74	17.74	0.0507	0.29	24.75	24.75	0.0190	0.08	25.12	25.11	0.0195	0.08	undetermined	42.63			7.006	7.367	24.889
	TR3	17.79				24.77				25.09				undetermined						
J522a_f_KID	TR1	19.41				25.16				26.32				undetermined						
	TR2	19.24	19.32	0.0830	0.43	25.29	25.26	0.0955	0.38	26.85	26.56	0.2716	1.02	undetermined				5.947	7.242	
	TR3	19.30				25.34				26.50				undetermined						
J331_f_KID	TR1	18.33				24.26				25.40				undetermined						
	TR2	18.44	18.36	0.0758	0.41	24.27	24.27	0.0085	0.04	25.37	25.40	0.0377	0.15	undetermined				5.916	7.046	
	TR3	18.30				24.28				25.44				undetermined						
J302_m_KID	TR1	18.65				24.86				25.51				undetermined						
	TR2	18.58	18.60	0.0461	0.25	24.92	24.91	0.0418	0.17	25.39	25.40	0.1052	0.41	undetermined				6.308	6.800	
	TR3	18.56				24.94				25.30				undetermined						
J303_m_KID	TR1	18.44				24.74				25.54				undetermined						
	TR2	18.38	18.36	0.0852	0.46	24.74	24.71	0.0512	0.21	25.53	25.49	0.0726	0.28	undetermined				6.347	7.129	
	TR3	18.27				24.65				25.41				undetermined						
J304_m_KID	TR1	17.71				24.78				24.98				undetermined						
	TR2	17.70	17.71	0.0049	0.03	24.64	24.67	0.0954	0.39	24.80	24.85	0.1160	0.47	undetermined				6.964	7.141	
	TR3	17.70				24.59				24.76				undetermined						
J305_m_KID	TR1	18.15				24.83				25.15				undetermined						
	TR2	18.24	18.18	0.0543	0.30	24.88	24.86	0.0237	0.10	25.14	25.18	0.0594	0.24	undetermined				6.684	7.001	
	TR3	18.14				24.87				25.25				undetermined						
J199_m_KID	TR1	18.60				25.00				25.69				undetermined						
	TR2	18.54	18.57	0.0325	0.17	25.02	25.00	0.0230	0.09	25.45	25.54	0.1356	0.53	undetermined				6.426	6.966	
	TR3	18.58				24.97				25.46				undetermined						

Table S3. Cont.

Sample ID	TR	Reference Gene <i>Gapdh</i>			Internal Positive Control 1			Internal Positive Control 2			Target Gene <i>Taar8b</i>			ΔC_t						
		C_t	Mean	StDev	CV/%	C_t	Mean	StDev	CV/%	C_t	Mean	StDev	CV/%	C_t	Mean	StDev	CV/%	$C_t(\text{Thra})$ - $C_t(\text{Gapdh})$	$C_t(\text{Thrb})$ - $C_t(\text{Gapdh})$	$C_t(\text{Taar8b})$ - $C_t(\text{Gapdh})$
			(C _i)	(C _i)	(C _i)		(C _i)	(C _i)	(C _i)		(C _i)	(C _i)	(C _i)		(C _i)	(C _i)				
11_m_KID_2013	TR1	17.92				24.67				25.33				undetermined						
	TR2	17.90	17.90	0.0162	0.09	24.71	24.70	0.0274	0.11	25.26	25.29	0.0370	0.15	undetermined				6.798	7.392	
	TR3	17.89				24.72				25.29				undetermined						
12_m_KID_2013	TR1	17.98				25.01				25.83				undetermined						
	TR2	17.97	17.97	0.0186	0.10	24.94	24.97	0.0344	0.14	25.74	25.76	0.0635	0.25	42.42	42.42			7.002	7.797	24.453
	TR3	17.94				24.95				25.72				undetermined						
J652g_f_H	TR1	20.42				26.29				29.65				undetermined						
	TR2	20.49	20.45	0.0353	0.17	26.31	26.31	0.0176	0.07	29.62	29.67	0.0508	0.17	undetermined				5.860	9.218	
	TR3	20.44				26.32				29.72				undetermined						
J718g_f_H	TR1	17.56				24.30				26.66				undetermined						
	TR2	17.63	17.58	0.0498	0.28	24.30	24.27	0.0429	0.18	26.63	26.60	0.0826	0.31	undetermined	49.14			6.697	9.025	31.565
	TR3	17.54				24.22				26.51				49.14						
J612_f_H	TR1	17.96				24.43				26.85				undetermined						
	TR2	17.97	17.96	0.0171	0.10	24.53	24.46	0.0565	0.23	26.68	26.67	0.1833	0.69	undetermined				6.501	8.709	
	TR3	17.94				24.42				26.48				undetermined						
J525_f_H	TR1	17.31				24.71				26.85				undetermined						
	TR2	17.34	17.33	0.0157	0.09	24.78	24.74	0.0362	0.15	26.68	26.75	0.0916	0.34	undetermined				7.411	9.415	
	TR3	17.34				24.74				26.70				undetermined						
J522a_f_H	TR1	17.24				24.27				27.10				undetermined						
	TR2	17.25	17.24	0.0217	0.13	24.25	24.25	0.0219	0.09	26.91	26.94	0.1442	0.54	undetermined				7.014	9.706	
	TR3	17.21				24.23				26.82				undetermined						
J331_f_H	TR1	17.13				24.10				26.55				undetermined						
	TR2	17.11	17.14	0.0456	0.27	24.11	24.12	0.0329	0.14	26.67	26.61	0.0628	0.24	42.32	42.32			6.980	9.468	25.174
	TR3	17.20				24.16				26.61				undetermined						

Table S3. Cont.

Sample ID	TR	Reference Gene Gapdh			Internal Positive Control 1				Internal Positive Control 2				Target Gene Taar8b			ΔC_t			
		C_t	Standard Gene Thra		Standard Gene Thrb			C_t	Standard Gene Thrb			C_t	Standard Gene Thrb			$C_t(\text{Thra})$	$C_t(\text{Thrb})$	$C_t(\text{Taar8b})$	
			Mean	StDev	CV/%	Mean	StDev		CV/%	Mean	StDev		CV/%	Mean	StDev				CV/%
(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)	(C_t)		
J302_m_H	TR1	19.47				25.71			28.65				undetermined						
	TR2	19.47	19.42	0.0871	0.45	25.59	25.64	0.0646	0.25	28.74	28.70	0.0478	0.17	undetermined		6.218	9.279		
	TR3	19.32				25.61			28.71				undetermined						
J303_m_H	TR1	17.30				24.41			26.77				undetermined						
	TR2	17.16	17.39	0.2873	1.65	24.30	24.37	0.0654	0.27	26.96	26.91	0.1149	0.43	undetermined		6.985	9.515		
	TR3	17.71				24.41			26.98				undetermined						
J304_m_H	TR1	19.11				25.44			28.97				undetermined						
	TR2	19.43	19.44	0.3301	1.70	25.48	25.82	0.6257	2.42	28.61	28.95	0.3317	1.15	undetermined		6.379	9.512		
	TR3	19.77				26.54			29.27				undetermined						
J305_m_H	TR1	19.62				25.89			28.85				undetermined						
	TR2	19.62	19.60	0.0237	0.12	25.84	25.85	0.0397	0.15	28.73	28.76	0.0821	0.29	undetermined		6.246	9.154		
	TR3	19.58				25.81			28.69				undetermined						
J199_m_H	TR1	17.25				24.26			26.93				undetermined						
	TR2	17.28	17.26	0.0190	0.11	24.29	24.29	0.0327	0.13	27.00	26.96	0.0355	0.13	undetermined		7.031	9.703		
	TR3	17.25				24.33			26.96				undetermined						
11_m_H_2013	TR1	19.60				25.65			28.51				42.43						
	TR2	19.61	19.59	0.0297	0.15	25.71	25.67	0.0323	0.13	28.43	28.44	0.0668	0.23	42.03	42.23		6.083	8.851	22.643
	TR3	19.55				25.65			28.37				undetermined						
12_m_H_2013	TR1	18.30				25.59			27.87				undetermined						
	TR2	18.28	18.29	0.0096	0.05	25.52	25.53	0.0560	0.22	27.85	27.82	0.0669	0.24	42.42	42.42		7.237	9.531	24.127
	TR3	18.30				25.48			27.75				undetermined						

Table S3. Cont.

Sample ID	TR	Reference Gene Gapdh			Internal Positive Control 1				Internal Positive Control 2				Target Gene Taar8b			ΔC_t				
		C_t	Mean	StDev	CV/%	C_t	Mean	StDev	CV/%	C_t	Mean	StDev	CV/%	C_t	Mean	StDev	CV/%	$C_t(\text{Thra}) - C_t(\text{Gapdh})$	$C_t(\text{Thrb}) - C_t(\text{Gapdh})$	$C_t(\text{Taar8b}) - C_t(\text{Gapdh})$
			(C_t)	(C_t)	(C_t)		(C_t)	(C_t)	(C_t)		(C_t)	(C_t)	(C_t)		(C_t)	(C_t)	(C_t)			
J652g_f_CB	TR1	18.90				22.65				27.71				undetermined						
	TR2	18.33	18.82	0.4633	2.46	22.29	22.53	0.2127	0.94	27.72	27.77	0.0978	0.35	undetermined				3.707	8.944	
	TR3	19.25				22.66				27.88				undetermined						
J718g_f_CB	TR1	17.79				22.06				26.66				undetermined						
	TR2	17.91	17.87	0.0744	0.42	22.07	22.10	0.0636	0.29	26.51	26.63	0.1103	0.41	42.88	42.88			4.226	8.758	25.009
	TR3	17.92				22.17				26.73				undetermined						
J612_f_CB	TR1	17.94				22.12				26.98				undetermined						
	TR2	17.91	17.93	0.0172	0.10	22.06	22.06	0.0593	0.27	26.96	26.97	0.0101	0.04	undetermined				4.131	9.038	
	TR3	17.94				22.00				26.96				undetermined						
J525_f_CB	TR1	19.86				23.82				28.68				undetermined						
	TR2	19.83	19.85	0.0217	0.11	23.67	23.72	0.0884	0.37	28.51	28.52	0.1520	0.53	undetermined				3.863	8.669	
	TR3	19.87				23.66				28.38				undetermined						
J522a_f_CB	TR1	18.20				22.02				26.72				undetermined						
	TR2	18.15	18.17	0.0264	0.15	22.04	22.02	0.0252	0.11	26.52	26.58	0.1187	0.45	undetermined				3.846	8.411	
	TR3	18.15				21.99				26.50				undetermined						
J331_f_CB	TR1	18.26				22.23				26.90				undetermined						
	TR2	18.40	18.36	0.0856	0.47	22.28	22.27	0.0351	0.16	27.01	26.95	0.0550	0.20	undetermined				3.906	8.592	
	TR3	18.42				22.30				26.94				undetermined						
J199_m_CB	TR1	18.38				22.01				27.15				undetermined						
	TR2	18.44	18.41	0.0308	0.17	21.95	21.98	0.0274	0.12	27.02	27.07	0.0736	0.27	undetermined				3.572	8.660	
	TR3	18.40				21.98				27.03				undetermined						
J13_m_CB	TR1	18.49				22.00				26.99				undetermined						
	TR2	18.55	18.56	0.0802	0.43	22.18	22.11	0.0964	0.44	26.92	27.01	0.0999	0.37	undetermined				3.544	8.446	
	TR3	18.65				22.14				27.12				undetermined						

Table S3. Cont.

Sample ID	TR	Reference Gene Gapdh			Internal Positive Control 1				Internal Positive Control 2				Target Gene Taar8b			ΔC_t				
		C_t	Mean (C_t)	StDev (C_t)	CV/% (C_t)	C_t	Standard Gene Thra			C_t	Standard Gene Thrb			C_t	Mean StDev CV/%			$C_t(\text{Thra})$ - $C_t(\text{Gapdh})$	$C_t(\text{Thrb})$ - $C_t(\text{Gapdh})$	$C_t(\text{Taar8b})$ - $C_t(\text{Gapdh})$
							Mean (C_t)	StDev (C_t)	CV/% (C_t)		Mean (C_t)	StDev (C_t)	CV/% (C_t)		Mean (C_t)	StDev (C_t)	CV/% (C_t)			
J14_m_CB	TR1	18.40				22.27				28.51				undetermined						
	TR2	18.50	18.48	0.0749	0.41	22.20	22.24	0.0377	0.17	27.58	27.90	0.5301	1.90	undetermined				3.756	9.422	
	TR3	18.54				22.24				27.62				undetermined						
J15_m_CB	TR1	18.32				22.10				27.07				undetermined						
	TR2	18.30	18.33	0.0380	0.21	22.08	22.09	0.0144	0.06	27.19	27.14	0.0623	0.23	undetermined				3.759	8.805	
	TR3	18.38				22.10				27.15				undetermined						
11_m_CB_2013	TR1	18.32				22.56				27.10				undetermined						
	TR2	18.40	18.32	0.0807	0.44	22.66	22.59	0.0560	0.25	27.13	27.15	0.0557	0.21	undetermined				4.270	8.825	
	TR3	18.24				22.56				27.21				undetermined						
12_m_CB_2013	TR1	19.31				22.64				26.99				undetermined						
	TR2	19.27	19.29	0.0182	0.09	22.70	22.69	0.0388	0.17	26.85	26.89	0.0880	0.33	42.42	42.42			3.394	7.596	23.127
	TR3	19.29				22.71				26.82				undetermined						
J652g_f_CX	TR1	18.39				21.46				24.74				undetermined						
	TR2	18.45	18.40	0.0402	0.22	21.57	21.51	0.0543	0.25	24.70	24.69	0.0646	0.26	undetermined				3.109	6.282	
	TR3	18.37				21.51				24.61				undetermined						
J718g_f_CX	TR1	17.97				21.44				24.67				43.70						
	TR2	17.98	17.97	0.0113	0.06	21.45	21.42	0.0456	0.21	24.66	24.64	0.0452	0.18	43.36	43.50	0.1796	0.41	3.452	6.671	25.535
	TR3	17.95				21.37				24.59				43.44						
J612_f_CX	TR1	17.85				21.16				24.54				undetermined						
	TR2	17.81	17.84	0.0260	0.15	21.05	21.08	0.0678	0.32	24.35	24.41	0.1096	0.45	42.37	42.37			3.241	6.568	24.531
	TR3	17.87				21.04				24.35				undetermined						
J525_f_CX	TR1	17.69				21.16				24.48				undetermined						
	TR2	17.74	17.70	0.0384	0.22	21.15	21.16	0.0066	0.03	24.49	24.49	0.0150	0.06	undetermined				3.462	6.796	
	TR3	17.67				21.17				24.51				undetermined						

Table S3. Cont.

Sample ID	TR	Reference Gene Gapdh			Internal Positive Control 1				Internal Positive Control 2				Target Gene Taar8b			ΔC_t				
		C_t	Mean (C_t)	StDev (C_t)	CV/% (C_t)	C_t	Standard Gene Thra			C_t	Standard Gene Thrb			C_t	Mean (C_t)	StDev (C_t)	CV/% (C_t)	$C_t(\text{Thra})$ - $C_t(\text{Gapdh})$	$C_t(\text{Thrb})$ - $C_t(\text{Gapdh})$	$C_t(\text{Taar8b})$ - $C_t(\text{Gapdh})$
							Mean (C_t)	StDev (C_t)	CV/% (C_t)		Mean (C_t)	StDev (C_t)	CV/% (C_t)							
J522a_f_CX	TR1	17.48				21.24				24.29				undetermined						
	TR2	17.49	17.45	0.0487	0.28	21.21	21.24	0.0270	0.13	24.26	24.22	0.0874	0.36	undetermined				3.785	6.771	
	TR3	17.40				21.27				24.12				undetermined						
J331_f_CX	TR1	20.44				22.96				27.03				undetermined						
	TR2	20.48	20.43	0.0686	0.34	22.99	22.96	0.0310	0.14	26.87	26.92	0.0918	0.34	undetermined				2.537	6.496	
	TR3	20.35				22.93				26.87				undetermined						
J199_m_CX	TR1	18.20				21.42				24.78				undetermined						
	TR2	18.23	18.21	0.0230	0.13	21.45	21.46	0.0479	0.22	24.86	24.82	0.0402	0.16	undetermined				3.255	6.615	
	TR3	18.19				21.51				24.82				undetermined						
J13_m_CX	TR1	17.74				21.05				24.02				undetermined						
	TR2	17.77	17.76	0.0162	0.09	21.05	21.05	0.0026	0.01	24.21	24.14	0.0995	0.41	undetermined				3.290	6.374	
	TR3	17.77				21.05				24.17				undetermined						
J14_m_CX	TR1	17.78				21.39				24.34				undetermined						
	TR2	17.81	17.80	0.0192	0.11	21.36	21.36	0.0298	0.14	24.29	24.34	0.0508	0.21	undetermined				3.561	6.539	
	TR3	17.81				21.33				24.39				undetermined						
J15_m_CX	TR1	18.98				21.76				25.27				undetermined						
	TR2	18.90	18.93	0.0393	0.21	21.90	21.83	0.0717	0.33	25.16	25.18	0.0728	0.29	undetermined				2.896	6.250	
	TR3	18.93				21.83				25.13				undetermined						
11_m_CX_2013	TR1	17.78				21.20				24.43				undetermined						
	TR2	17.83	17.80	0.0262	0.15	21.30	21.27	0.0571	0.27	24.34	24.38	0.0479	0.20	undetermined				3.473	6.586	
	TR3	17.78				21.30				24.38				undetermined						
12_m_CX_2013	TR1	17.81				21.47				24.39				undetermined						
	TR2	17.85	17.81	0.0481	0.27	21.44	21.45	0.0165	0.08	24.32	24.35	0.0398	0.16	undetermined				3.645	6.544	
	TR3	17.76				21.44				24.34				undetermined						

Table S3. Cont.

Sample ID	TR	Reference Gene Gapdh			Internal Positive Control 1				Internal Positive Control 2				Target Gene Taar8b			ΔC_t				
		C_t	Mean (C_t)	StDev (C_t)	CV/% (C_t)	C_t	Standard Gene Thra			C_t	Standard Gene Thrb			C_t	Mean (C_t)	StDev (C_t)	CV/% (C_t)	$C_t(\text{Thra}) - C_t(\text{Gapdh})$	$C_t(\text{Thrb}) - C_t(\text{Gapdh})$	$C_t(\text{Taar8b}) - C_t(\text{Gapdh})$
							Mean (C_t)	StDev (C_t)	CV/% (C_t)		Mean (C_t)	StDev (C_t)	CV/% (C_t)							
J652g_f_STR	TR1	19.34				22.71				27.21				undetermined						
	TR2	19.32	19.34	0.0171	0.09	22.66	22.69	0.0252	0.11	27.21	27.19	0.0349	0.13	undetermined	41.21			3.354	7.852	
	TR3	19.35				22.70				27.15				undetermined						
J718g_f_STR	TR1	17.75				21.67				25.48				41.38						
	TR2	17.68	17.71	0.0321	0.18	21.62	21.61	0.0695	0.32	25.31	25.33	0.1318	0.52	undetermined	41.21			3.897	7.621	23.492
	TR3	17.71				21.54				25.22				41.04						
J612_f_STR	TR1	17.56				21.61				25.59				42.64						
	TR2	17.63	17.60	0.0347	0.20	21.61	21.63	0.0395	0.18	25.56	25.63	0.0912	0.36	undetermined	42.64			4.035	8.029	25.039
	TR3	17.61				21.68				25.73				undetermined						
J525_f_STR	TR1	17.70				21.74				25.76				undetermined						
	TR2	17.69	17.69	0.0017	0.01	21.71	21.74	0.0255	0.12	25.72	25.73	0.0194	0.08	undetermined				4.045	8.040	
	TR3	17.70				21.76				25.73				undetermined						
J522a_f_STR	TR1	17.50				21.50				25.01				undetermined						
	TR2	17.54	17.53	0.0202	0.12	21.50	21.49	0.0068	0.03	24.93	24.97	0.0413	0.17	undetermined				3.966	7.441	
	TR3	17.54				21.48				24.96				undetermined						
J331_f_STR	TR1	17.35				22.02				25.93				undetermined						
	TR2	17.24	17.28	0.0566	0.33	22.01	22.00	0.0287	0.13	25.97	25.94	0.0316	0.12	undetermined				4.715	8.652	
	TR3	17.26				21.97				25.91				undetermined						
J199_m_STR	TR1	17.82				21.90				25.83				undetermined						
	TR2	17.83	17.82	0.0087	0.05	21.94	21.91	0.0296	0.13	25.74	25.76	0.0612	0.24	undetermined				4.091	7.945	
	TR3	17.81				21.89				25.72				undetermined						
J13_m_STR	TR1	19.00				22.48				26.85				undetermined						
	TR2	18.95	18.96	0.0406	0.21	22.57	22.54	0.0460	0.20	26.74	26.74	0.1024	0.38	undetermined				3.583	7.789	
	TR3	18.92				22.56				26.64				undetermined						

Table S3. Cont.

Sample ID	TR	Reference Gene Gapdh			Internal Positive Control 1				Internal Positive Control 2				Target Gene Taar8b			ΔC_t				
		C_t	Mean (C_t)	StDev (C_t)	CV/% (C_t)	C_t	Standard Gene Thra			C_t	Standard Gene Thrb			C_t	Mean (C_t)	StDev (C_t)	CV/% (C_t)	$C_t(\text{Thra})$ - $C_t(\text{Gapdh})$	$C_t(\text{Thrb})$ - $C_t(\text{Gapdh})$	$C_t(\text{Taar8b})$ - $C_t(\text{Gapdh})$
							Mean (C_t)	StDev (C_t)	CV/% (C_t)		Mean (C_t)	StDev (C_t)	CV/% (C_t)							
J14_m_STR	TR1	17.89				21.70				25.37				undetermined						
	TR2	17.85	17.86	0.0278	0.16	21.65	21.66	0.0423	0.20	25.39	25.35	0.0488	0.19	undetermined				3.799	7.496	
	TR3	17.84				21.62				25.30				undetermined						
J15_m_STR	TR1	19.41				22.48				26.95				undetermined						
	TR2	19.39	19.40	0.0103	0.05	22.47	22.47	0.0065	0.03	26.79	26.83	0.1001	0.37	undetermined				3.070	7.432	
	TR3	19.41				22.46				26.76				undetermined						
11_m_STR_2013	TR1	17.34				21.43				25.63				undetermined						
	TR2	17.39	17.39	0.0575	0.33	21.42	21.42	0.0102	0.05	25.47	25.50	0.1174	0.46	undetermined				4.028	8.104	
	TR3	17.45				21.41				25.40				undetermined						
12_m_STR_2013	TR1	17.49				21.77				25.64				undetermined						
	TR2	17.62	17.61	0.1047	0.59	21.90	21.85	0.0696	0.32	25.75	25.74	0.0932	0.36	undetermined				4.242	8.136	
	TR3	17.70				21.87				25.83				undetermined						
J652g_f_OB	TR1	18.73				22.10				27.85				undetermined						
	TR2	18.68	18.72	0.0348	0.19	22.09	22.09	0.0183	0.08	27.64	27.72	0.1112	0.40	undetermined				3.367	9.002	
	TR3	18.74				22.07				27.68				undetermined						
J718g_f_OB	TR1	17.55				21.13				25.62				40.11						
	TR2	17.53	17.55	0.0184	0.10	21.15	21.16	0.0308	0.15	25.74	25.68	0.0634	0.25	41.28	41.60	1.6728	4.02	3.613	8.136	24.052
	TR3	17.56				21.19				25.69				43.41						
J525_f_OB	TR1	17.56				21.40				26.62				undetermined						
	TR2	17.57	17.55	0.0125	0.07	21.40	21.41	0.0069	0.03	26.57	26.61	0.0290	0.11	undetermined				3.851	9.053	
	TR3	17.54				21.41				26.63				undetermined						
J522a_f_OB	TR1	17.50				21.24				25.97				undetermined						
	TR2	17.59	17.57	0.0658	0.37	21.33	21.30	0.0499	0.23	26.11	26.06	0.0822	0.32	41.96	41.96			3.729	8.494	24.388
	TR3	17.63				21.33				26.11				undetermined						

Table S3. Cont.

Sample ID	TR	Reference Gene Gapdh			Internal Positive Control 1				Internal Positive Control 2				Target Gene Taar8b			ΔC_t				
		C_t	Mean (C_t)	StDev (C_t)	CV/% (C_t)	C_t	Standard Gene Thra			C_t	Standard Gene Thrb			C_t	Mean (C_t)	StDev (C_t)	CV/% (C_t)	$C_t(\text{Thra}) - C_t(\text{Gapdh})$	$C_t(\text{Thrb}) - C_t(\text{Gapdh})$	$C_t(\text{Taar8b}) - C_t(\text{Gapdh})$
							Mean (C_t)	StDev (C_t)	CV/% (C_t)		Mean (C_t)	StDev (C_t)	CV/% (C_t)							
J331_f_OB	TR1	18.56				22.09				27.88				undetermined						
	TR2	18.70	18.67	0.1036	0.55	22.16	22.16	0.0662	0.30	27.91	27.98	0.1485	0.53	42.89	42.89			3.485	9.309	24.217
	TR3	18.76				22.22				28.15				undetermined						
J15_m_OB	TR1	17.82				21.37				25.28				undetermined						
	TR2	17.82	17.84	0.0256	0.14	21.39	21.39	0.0234	0.11	25.17	25.19	0.0755	0.30	42.40	42.40			3.559	7.358	24.560
	TR3	17.87				21.42				25.14				undetermined						
11_m_OB_2013	TR1	17.90				21.60				26.27				43.06						
	TR2	17.89	17.87	0.0403	0.23	21.55	21.55	0.0453	0.21	26.19	26.22	0.0450	0.17	undetermined	43.06			3.679	8.349	25.186
	TR3	17.83				21.51				26.20				undetermined						
12_m_OB_2013	TR1	19.06				22.40				27.22				undetermined						
	TR2	19.05	19.06	0.0098	0.05	22.32	22.33	0.0640	0.29	27.17	27.17	0.0504	0.19	undetermined				3.275	8.116	
	TR3	19.07				22.28				27.12				undetermined						
J652g_f_HIP	TR1	17.81				21.00				24.83				undetermined						
	TR2	17.82	17.83	0.0299	0.17	21.05	21.04	0.0342	0.16	24.76	24.85	0.0990	0.40	undetermined				3.208	7.015	
	TR3	17.86				21.07				24.95				undetermined						
J718g_f_HIP	TR1	19.36				21.68				26.41				undetermined						
	TR2	19.36	19.34	0.0401	0.21	21.67	21.67	0.0114	0.05	26.37	26.33	0.1044	0.40	undetermined				2.332	6.992	
	TR3	19.29				21.66				26.21				undetermined						
J612_f_HIP	TR1	18.08				21.12				25.19				42.74						
	TR2	18.10	18.08	0.0192	0.11	21.19	21.16	0.0339	0.16	25.09	25.12	0.0701	0.28	40.53	42.38	1.7031	4.02	3.082	7.035	24.300
	TR3	18.06				21.18				25.06				43.87						
J522a_f_HIP	TR1	20.00				22.60				27.36				undetermined						
	TR2	20.15	20.09	0.0782	0.39	22.72	22.68	0.0643	0.28	27.39	27.41	0.0622	0.23	undetermined				2.583	7.318	
	TR3	20.13				22.71				27.48				undetermined						

Table S3. Cont.

Sample ID	TR	Reference Gene Gapdh			Internal Positive Control 1				Internal Positive Control 2				Target Gene Taar8b			ΔC_t				
		C_t	Mean (C_t)	StDev (C_t)	CV/% (C_t)	C_t	Standard Gene Thra			C_t	Standard Gene Thrb			C_t	Mean (C_t)	StDev (C_t)	CV/% (C_t)	$C_t(\text{Thra}) - C_t(\text{Gapdh})$	$C_t(\text{Thrb}) - C_t(\text{Gapdh})$	$C_t(\text{Taar8b}) - C_t(\text{Gapdh})$
							Mean (C_t)	StDev (C_t)	CV/% (C_t)		Mean (C_t)	StDev (C_t)	CV/% (C_t)							
J331_f_HIP	TR1	17.44				21.04				24.93				undetermined						
	TR2	17.53	17.44	0.0886	0.51	21.20	21.13	0.0808	0.38	24.78	24.87	0.0765	0.31	undetermined				3.688	7.426	
	TR3	17.35				21.15				24.90				undetermined						
J13_m_HIP	TR1	17.86				20.85				25.44				undetermined						
	TR2	17.79	17.82	0.0348	0.20	20.81	20.80	0.0564	0.27	25.24	25.31	0.1168	0.46	undetermined				2.976	7.485	
	TR3	17.82				20.74				25.24				undetermined						
J14_m_HIP	TR1	17.51				20.50				24.82				undetermined						
	TR2	17.50	17.51	0.0106	0.06	20.46	20.47	0.0276	0.13	24.79	24.77	0.0651	0.26	undetermined				2.953	7.257	
	TR3	17.52				20.44				24.70				undetermined						
J15_m_HIP	TR1	17.57				20.48				25.73				undetermined						
	TR2	17.58	17.59	0.0321	0.18	20.54	20.53	0.0441	0.21	25.73	25.78	0.0853	0.33	undetermined				2.932	8.184	
	TR3	17.63				20.57				25.88				undetermined						
11_m_HIP_2013	TR1	18.84				21.80				26.00				undetermined						
	TR2	18.86	18.86	0.0230	0.12	21.85	21.81	0.0317	0.15	25.93	25.95	0.0427	0.16	undetermined				2.950	7.091	
	TR3	18.88				21.79				25.93				undetermined						
12_m_HIP_2013	TR1	18.94				21.84				25.94				undetermined						
	TR2	18.90	18.92	0.0236	0.12	21.76	21.77	0.0672	0.31	25.83	25.86	0.0650	0.25	undetermined				2.851	6.946	
	TR3	18.91				21.71				25.82				undetermined						
J652g_f_THY	TR1	22.73				27.85				31.00				undetermined						
	TR2	22.67	22.71	0.0401	0.18	27.88	27.87	0.0184	0.07	31.08	31.03	0.0484	0.16	undetermined				5.160	8.316	
	TR3	22.74				27.89				31.01				undetermined						
J718g_f_THY	TR1	21.20				not available				not available				undetermined						
	TR2	21.22	21.17	0.0655	0.31	not available				not available				undetermined						
	TR3	21.09				not available				not available				undetermined						

Table S3. Cont.

Sample ID	TR	Reference Gene Gapdh			Internal Positive Control 1				Internal Positive Control 2				Target Gene Taar8b			ΔC_t				
		C_t	Mean (C_t)	StDev (C_t)	CV/% (C_t)	C_t	Standard Gene Thra			C_t	Standard Gene Thrb			C_t	Mean (C_t)	StDev (C_t)	CV/% (C_t)	$C_t(\text{Thra})$ - $C_t(\text{Gapdh})$	$C_t(\text{Thrb})$ - $C_t(\text{Gapdh})$	$C_t(\text{Taar8b})$ - $C_t(\text{Gapdh})$
							(C_t)	(C_t)	(C_t)		(C_t)	(C_t)	(C_t)							
J525_f_THY	TR1	24.28				29.48				31.82				undetermined						
	TR2	24.35	24.35	0.0621	0.26	29.56	29.51	0.0451	0.15	31.63	31.68	0.1259	0.40	undetermined				5.163	7.336	
	TR3	24.41				29.48				31.59				undetermined						
J522a_f_THY	TR1	24.07				30.16				32.06				undetermined						
	TR2	24.00	24.02	0.0429	0.18	29.98	30.03	0.1099	0.37	32.10	32.00	0.1408	0.44	undetermined				6.013	7.981	
	TR3	23.99				29.96				31.84				undetermined						
J331_f_THY	TR1	23.75				29.55				31.78				undetermined						
	TR2	23.43	23.61	0.1685	0.71	29.43	29.45	0.0966	0.33	31.54	31.64	0.1226	0.39	undetermined				5.835	8.032	
	TR3	23.66				29.36				31.61				undetermined						
J305_m_THY	TR1	23.66				not available				not available				undetermined						
	TR2	23.67	23.63	0.0593	0.25	not available				not available				undetermined						
	TR3	23.56				not available				not available				undetermined						
505_m_THY	TR1	24.04				28.55				30.61				undetermined						
	TR2	24.05	24.02	0.0456	0.19	28.56	28.56	0.0260	0.09	30.70	30.64	0.0532	0.17	undetermined				4.548	6.626	
	TR3	23.97				28.59				30.62				undetermined						
11+12_m_THY_pool_2013	TR1	22.93				not available				not available				undetermined						
	TR2	22.85	22.89			not available				not available				undetermined						

CB, cerebellum; CX, cortex; HIP, hippocampus; STR, striatum; H, heart; LIV, liver; KID, kidney; THY, thyroid; OB, olfactory bulb; f, female; m, male; TR, technical replicate; C_t , threshold cycle; StDev, standard deviation; CV, coefficient of variation (StDev/mean \times 100); ΔC_t , C_t difference (C_t (target gene) - C_t (reference gene)); Gapdh, glyceraldehyde-3-phosphate dehydrogenase; Thra, thyroid hormone receptor alpha; Thrb, thyroid hormone receptor beta; Taar8b, trace amine-associated receptor 8B; not available, PCR-reaction not conducted.