

Table S2. qPCR statistical data

A. Summary Data for qPCR experiments

Gland	Paralog	Male average ng total RNA			Female average ng total RNA			Male confidence interval			Female confidence interval		
		M +/+	M +/-	M -/-	F +/+	F +/-	F -/-	M +/+	M +/-	M -/-	F +/+	F +/-	F -/-
Salivary	a27	0.149	0.081	0.000	0.214	0.119	0.000	0.056	0.029	0.000	0.093	0.036	0.000
Salivary	bg26	0.175	0.219	0.135	0.252	0.217	0.160	0.023	0.014	0.049	0.033	0.031	0.110
Salivary	bg27	0.043	0.024	0.000	0.054	0.033	0.000	0.001	0.005	0.000	0.006	0.002	0.000
Salivary	GAPDH	0.133	0.168	0.064	0.175	0.085	0.154	0.087	0.107	0.343	0.085	0.114	0.079
Lacrimal	a2	0.110	0.100	0.054	0.087	0.069	0.084	0.087	0.033	0.014	0.018	0.011	0.041
Lacrimal	bg2	0.029	0.025	0.016	0.027	0.021	0.022	0.012	0.000	0.005	0.005	0.004	0.004
Lacrimal	a3	0.075	0.063	0.065	0.001	0.001	0.001	0.026	0.010	0.019	0.000	0.000	0.001
Lacrimal	bg3	0.092	0.063	0.022	0.000	0.000	0.000	0.094	0.029	0.009	0.000	0.000	0.000
Lacrimal	bg7	0.039	0.039	0.034	0.012	0.010	0.009	0.007	0.001	0.003	0.005	0.004	0.006
Lacrimal	bg12	2.302	1.513	0.293	0.001	0.000	0.001	1.545	1.635	0.288	0.001	0.000	0.001
Lacrimal	bg20	0.827	0.349	0.154	0.013	0.015	0.052	0.874	0.051	0.041	0.002	0.010	0.042
Lacrimal	a24	0.059	0.027	0.002	0.064	0.022	0.006	0.037	0.008	0.001	0.019	0.008	0.001
Lacrimal	bg24	0.202	0.181	0.133	0.182	0.176	0.171	0.042	0.013	0.036	0.054	0.007	0.023
Lacrimal	GAPDH	0.266	0.922	0.205	0.153	0.109	0.253	0.244	0.456	0.224	0.205	0.045	0.156

B. Interaction between gender and genotype, submandibular gland (ANOVA test)

Paralog	p-value
a27	0.20319
bg26	0.22662
bg27	0.15316

C. Statistical significance of submandibular RNA expression between genotypes (ANOVA test)

Paralog	Mean (S.E.)			p-value		
	+/+	+/-	-/-	+/+ vs +/-	+/+ vs -/-	+/- vs -/-
a27	0.18 (0.03)	0.10 (0.01)		0.028		
bg26	0.21 (0.02)	0.22 (0.01)	0.15 (0.03)	0.832	0.079	0.034
bg27	0.05 (0.003)	0.03 (0.002)		0.0004		

D. Interaction between gender and genotype, lacrimal gland (ANOVA test)

Paralog	p-value
a2	0.514
bg2	0.562
a3*	1.28E-09
bg3*	0.003
bg7	3.74E-10
bg12*	0.008
bg20	2.15E-02
a24	0.929
bg24	0.788

E. Significance of lacrimal RNA expression between genotypes (Confidence Intervals of the difference of the means)

Paralog	Gender	Mean (S.E.)			Confidence Intervals		
		+/+	+/-	-/-	+/+ vs +/-	+/+ vs -/-	+/- vs -/-
a2	M	0.11 (0.045)	0.10 (0.168)	0.05 (0.007)	(-0.08, 0.1)	(-0.03, 0.14)	(0.01, 0.08)
	F	0.09 (0.009)	0.07 (0.006)	0.08 (0.021)	(-0.003, 0.04)	(-0.042, 0.05)	(-0.06, 0.03)
bg2	M	0.03 (0.006)	0.02 (0.0001)	0.02 (0.0006)	(-0.001, 0.02)	(-0.03, 0.02)	(0.004, 0.007)
	F	0.03 (0.003)	0.02 (0.002)	0.02 (0.001)	(-0.0005, 0.01)	(-0.002, 0.01)	(-0.006, 0.004)
a3*	M	0.08 (0.013)	0.06 (0.005)	0.07 (0.010)	(-0.02, 0.04)	(-0.02, 0.04)	(-0.0005, 0.0002)
	F	-	-	...
bg3*	M	0.09 (0.047)	0.06 (0.015)	0.02 (0.006)	(-0.07, 0.13)	(-0.02, 0.16)	(0.009, 0.07)
	F	-	-	...
	M	0.04 (0.004)	0.04 (0.0007)	0.03 (0.001)	(-0.007, 0.007)	(-0.002, 0.013)	(0.001, 0.008)

bg7	F	0.01 (0.002)	0.01 (0.002)	0.01 (0.003)	(---0.004,0.009)	(---0.004,0.01)	(---0.006,0.008)
bg12*	M	2.3 (0.788)	1.5 (0.834)	0.29 (0.147)	(---1.47,3.04)	(0.44,3.6)	(---0.44,2.88)
	F	---	---	---	-	-	---
bg20	M	0.83 (0.446)	0.35 (0.026)	0.15 (0.021)	(--0.39,1.35)	(---0.201,1.55)	(0.129,0.26)
	F	0.01 (0.002)	0.02 (0.005)	0.05 (0.021)	(---0.013,0.008)	(---0.08,0.003)	(---0.08,0.007)
a24	M	0.06 (0.019)	0.03 (0.004)	0.002 (0.0006)	(---0.006,0.07)	(0.02,0.09)	(0.016,0.03)
	F	0.06 (0.009)	0.02 (0.004)	0.006 (0.0007)	(0.02,0.06)	(0.04,0.08)	(0.008,0.024)
bg24	M	0.20 (0.02)	0.18 (0.006)	0.13 (0.018)	(---0.022,0.06)	(0.012,0.124)	(0.008,0.086)
	F	0.18 (0.028)	0.18 (0.004)	0.17 (0.012)	(---0.05,0.06)	(---0.04,0.069)	(---0.019,0.029)

*Male-specific expression

Non-overlapping confidence intervals, indicating there is a significant difference between the means of transcript expression between the two genotypes.