

TABLE S11: Abundance of miRNAs in *msl3* mutant salivary glands

	Genotype	Exp.	Average Ct ^a	Corrected amount ^b	Fold Difference (FD) ^c	log ₂ (FD)	Average log ₂ (FD)	SD ^d	p value ^e
Dspt4	msl3-/msl3+	1	23.5091	95.762	1.000	0.000	0.000	0.000	
		2	23.7935	200.048	1.000	0.000			
	msl3-/msl3-	1	23.2659	106.222					
		2	23.2766	250.610					
mir-283	msl3-/msl3+	1	24.9728	89.769	0.514	-0.961	-0.901	0.086	0.00045
		2	24.7449	185.152	0.559	-0.840			
	msl3-/msl3-	1	26.4340	57.172					
		2	26.1674	129.580					
mir-304	msl3-/msl3+	1	29.9743	100.663	0.338	-1.564	-1.631	0.095	0.00070
		2	30.2644	203.835	0.308	-1.698			
	msl3-/msl3-	1	32.2164	37.754					
		2	32.3252	78.686					
mir-12	msl3-/msl3+	1	21.5294	88.515	0.406	-1.300	-1.284	0.022	0.00006
		2	21.8149	182.599	0.415	-1.269			
	msl3-/msl3-	1	23.8153	39.885					
		2	24.1442	94.941					
mir-979	msl3-/msl3+	1	36.2751	149.915	0.833	-0.263	-0.749	0.687	0.24047
		2	35.4645	209.309	0.425	-1.235			
	msl3-/msl3-	1	36.5484	138.570					
		2	37.5508	111.399					
mir-210	msl3-/msl3+	1	28.5830	100.340	1.425	0.511	0.384	0.180	0.07654
		2	29.1231	202.647	1.195	0.257			
	msl3-/msl3-	1	27.8037	158.625					
		2	28.3154	303.278					
U6	msl3-/msl3+	1	17.1883	100.088	0.611	-0.710	-0.627	0.117	0.01472
		2	17.7507	184.333	0.686	-0.544			
	msl3-/msl3-	1	18.0034	67.880					
		2	18.2684	158.374					

a. Dilution series were prepared in the control sample to construct standard curves for the Dspt4 autosomal gene reference and for each miRNA. C_T values measured in replicates for the target miRNA and Dspt4 reference in mutant and heterozygous mutant control samples respectively are averaged in individual experiments (Exp.1 and 2) and the corrected amount of target miRNA and Dspt4 reference inferred from the standard curve in b.

c. The amounts of miRNA are normalized in the mutant sample and in the heterozygous mutant control sample by dividing the calculated amount of miRNA by the amount of the Dspt4 reference. The fold difference (FD) or relative expression level of a miRNA corresponds to the

ratio of the normalized abundance of the miRNA in the mutant relative to the heterozygous mutant control sample, that is the ratio $[\text{miRNA/Dspt4}] \text{ Mutant} / [\text{miRNA/Dspt4}] \text{ Control}$; the average of the base 2 logarithm of the fold difference is plotted in Figure 2B,C.

d. SD is the standard deviation of the difference.

e. p-values are established in a two tailed Students t-test comparing the means of the normalized amounts of target miRNA in the mutant and in the heterozygous mutant control samples.

* $p < 0.05$, ** $p < 0.005$. *** $p < 0.0005$