

Supplement table 1 – Composition of mutated region

	<i>Total nt</i>	<i>Freq G + C</i>	<i>Total CpG</i>	<i>Ratio O/E CpG</i>	<i>Total UpA</i>	<i>Ratio O/E UpA</i>	<i>CAI^a Hs</i>	<i>CAI^b Dm</i>
<i>Wildtype</i>	10727	0.51	308	0.45	342	0.54	0.71	0.60
<i>Wildtype</i>	1654	0.53	55	0.49	57	0.64	0.77	0.64
<i>SCR</i>	1654	0.53	55	0.49	49	0.55	0.76	0.65
<i>CpG_1.0</i>	1654	0.46	114	1.01	57	0.64	0.70	0.63
<i>CpG_max</i>	1654	0.61	245	1.62	57	0.93	0.67	0.71
<i>UpA_max</i>	1654	0.53	55	0.68	207	1.71	0.63	0.51

^a Codon adaptation index (CAI) calculated against the codon usage table of Homo sapiens (Hs)

^b CAI calculated against the codon usage table of Drosophila melanogaster (Dm)