

Table S2. Genome Synteny – CatSper- $\beta$

Genes	<i>RPS6KA5</i>	<i>C14orf159</i>	<i>GPR68</i>	<i>CCDC88C</i>	<i>SMEK1</i>	<i>CatSper-<math>\beta</math></i>	<i>TC2N</i>	<i>FBLN5</i>	<i>TRIP11</i>	<i>ATXN3</i>	<i>NDUFBI</i>
HsaCh14	+	+	+	+	+	+	+	+	+	+	+
MusChr12	+	+	+	+	+	+	+	+	+	+	+
GgaCh5	+	+	+	+	+	- (fragment)	+	+	+	+	+

*RPS6KA5*, ribosomal protein S6 kinase, 90kDa, polypeptide 5

*C14orf159*, chromosome 14 open reading frame 159;

*GPR68*, G protein-coupled receptor 68

*CCDC88C*, coiled-coil domain containing 88C;

*SMEK1*, SMEK homolog 1, suppressor of mek1 (Dictyostelium);

*TC2N*, tandem C2 domains, nuclear;

*FBLN5*, fibulin 5;

*TRIP11*, thyroid hormone receptor interactor 11

*ATXN3*, ataxin 3;

*NDUFBI*, NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 1, 7kDa;

Hsa, *H. sapiens*; Mus, *M. musculus*; Gga, *G. gallus*;

Ch - chromosome

(?) – Not mapped to chromosomes.