

Table S4 Off target analysis for four mice carrying targeted *Tet2* mutation

Site	Coordinate*	Sequence	Mismatches	Mutation
On Target	chr3:133148617 -133148639	GAAAGTGCCAACAGATATCCAGG	none	yes
Off Target 1	chr11:31327722 -31327744	aAAAtGTGCaAACAGATATCCTGG	1,4,9	No
Off Target 2	chr8:61482458- 61482480	GAAAagGgCAACAGATATCCTGG	5,6,8	No
Off Target 3	chr5:134923409 -134923431	GAAcGTGgCAcCAGATATCCTGG	4,8,11	No
Off Target 4	chr1:73824333- 73824355	GAcAGTGCCAAaAcATATCCTGG	3,12,14	No
Off Target 5	chr2:150088681 -150088703	cAAAGaGCCAACAGAaATCCAGG	1,6,16	No
Off Target 6	chr17:36494664 -36494686	GAAgGTGgCAACAGAcATCCTGG	4,8,16	No
Off Target 7	chr17:36923721 -36923743	GAAgGTGgCAACAGAcATCCTGG	4,8,16	No
Off Target 8	chr17:36961245 -36961267	GAAgGTGgCAACAGAcATCCTGG	4,8,16	No
Off Target 9	chr1:89767331- 89767353	GgAAAtGCCAACAGATcTCCTGG	2,5,17	No
Off Target 10	chr12:4599503- 4599525	GAAAGgGCCAAgAGATgTCCAGG	6,12,17	No
Off Target 11	chr5:148012894 -148012916	GAAAaTGgCAACAGATAcCCTGG	5,8,18	No
Off Target 12	chr7:121431500 -121431522	GtAAGTtCCAACAGATATgCTGG	2,7,19	No
Off Target 13	chr14:26417940 -26417962	GAAgGTGCCAgCAGATATCaAGG	4,11,20	No
Off Target 14	chr7:115756427 -115756449	GAcAGTGCCAACAGATATagTGG	3,19,20	No

*chromosome coordinate is based on July 2007, NCBI37/mm9.

PCR products were amplified from samples 86EP1, 2, 3, and 4 encompassing the 14 potential off target sites and analyzed by Sanger sequencing. All were found to be wild type at the loci.