

Supplementary Table S1. Indels identified by deep sequencing.

Mouse #1

Name	Reference	Position	Ref	Indel	ReadsSupportingRef	ReadsSupportingIndel	VarFreq
D14-8355	Pten_345bp	116	T	*/-AGCAGAAA	7019	27	0.38%
D14-8355	Pten_345bp	118	G	*/-CAGAAA	7343	26	0.35%
D14-8355	Pten_345bp	119	C	*/-AGAAACAAA	7221	16	0.22%
D14-8355	Pten_345bp	121	G	*/-A	6925	193	2.65%
D14-8355	Pten_345bp	121	G	*/-AA	6925	54	0.74%
D14-8355	Pten_345bp	121	G	*/-AAA	6925	29	0.40%
D14-8355	Pten_345bp	121	G	*/-AAAC	6925	18	0.25%
D14-8355	Pten_345bp	121	G	*/+A	6925	31	0.43%
D14-8355	Pten_345bp	122	A	*/-AAC	6585	23	0.35%
D14-8355	Pten_345bp	123	A	*/-AC	6278	42	0.66%
D14-8355	Pten_345bp	124	A	*/-C	5888	50	0.79%
D14-8355	Pten_345bp	124	A	*/+C	5888	372	5.87%
D14-8355	Pten_345bp	125	C	*/-A	6633	41	0.60%
D14-8355	Pten_345bp	125	C	*/-AA	6633	15	0.22%
D14-8355	Pten_345bp	125	C	*/-AAA	6633	18	0.26%
D14-8355	Pten_345bp	125	C	*/+A	6633	32	0.47%
D14-8355	Pten_345bp	237	G	*/-A	7385	17	0.23%
						Total	14.87%

Mouse #2

Name	Reference	Position	Ref	Indel	ReadsSupportingRef	ReadsSupportingIndel	VarFreq
D14-8356	Pten_345bp	112	T	*/-CGTTAGCAGAA	7399	37	0.50%
D14-8356	Pten_345bp	115	T	*/-TAGCAGAAA	6984	18	0.25%
D14-8356	Pten_345bp	116	T	*/-AGCAGAA	6865	33	0.47%
D14-8356	Pten_345bp	116	T	*/-AGCAGAAA	6865	41	0.58%
D14-8356	Pten_345bp	118	G	*/-CAGAAA	7201	26	0.36%
D14-8356	Pten_345bp	119	C	*/-AGAAACAAAA	7082	21	0.29%
D14-8356	Pten_345bp	119	C	*/-AGAA	7082	20	0.28%
D14-8356	Pten_345bp	121	G	*/-A	6670	206	2.91%

D14-8356	Pten_345bp	121	G	*/-AA	6670	74	1.04%
D14-8356	Pten_345bp	121	G	*/-AAA	6670	37	0.52%
D14-8356	Pten_345bp	121	G	*/-AAAC	6670	32	0.45%
D14-8356	Pten_345bp	121	G	*/-AAACA	6670	24	0.34%
D14-8356	Pten_345bp	122	A	*/-AAC	6334	33	0.52%
D14-8356	Pten_345bp	123	A	*/-AC	6061	43	0.70%
D14-8356	Pten_345bp	124	A	*/-C	5514	77	1.25%
D14-8356	Pten_345bp	124	A	*/-CAAAAGGAG/	5514	17	0.28%
D14-8356	Pten_345bp	124	A	*/+C	5514	534	8.68%
D14-8356	Pten_345bp	125	C	*/-A	6154	36	0.56%
D14-8356	Pten_345bp	125	C	*/-AAAAGGAGAT	6154	22	0.34%
D14-8356	Pten_345bp	125	C	*/-AA	6154	20	0.31%
D14-8356	Pten_345bp	125	C	*/-AAA	6154	17	0.26%
D14-8356	Pten_345bp	125	C	*/-AAAAGG	6154	21	0.33%
D14-8356	Pten_345bp	125	C	*/-AAAAGGA	6154	23	0.36%
D14-8356	Pten_345bp	125	C	*/-AAAAGGAG	6154	22	0.34%
D14-8356	Pten_345bp	125	C	*/+A	6154	42	0.65%
D14-8356	Pten_345bp	237	G	*/-A	7405	16	0.21%
						Total	22.78%