

SUPPLEMENTARY TABLE S1. INTEGRATION EVENTS OF IDLVs IN RAT STRIATA

Status	Animal	Sample	DNA	Reads	Chr	Sequence orientation	IL	Identity	Genomic length	Upstream of TTS (bp)	In gene distance to TSS (bp)	Intron exon	% in Gene	Downstream of gene	RefSeq gene	Gene length	Gene orientation	RefSeq ID	Missing LTR bases
Nonlesioned	14	15	877	1	19	+	49,172,372	99.3	142		665,199	In5	62.288		<i>Cdh13</i>	1,067,948	+	NM_138889	10
Nonlesioned	14	15	877	2	2	+	77,471,363	100	128		51,847	In2	35.366		<i>Fam134b</i>	146,602	+	NM_001034912	1
Nonlesioned	14	15	877	1	2	+	77,471,406	100	85		51,890	In2	35.395		<i>Fam134b</i>	146,602	+	NM_001034912	20
Nonlesioned	15	21	697	27	10	-	40,385,868	98.48	66		53,815	In25	96.6		<i>Anxa6</i>	55,709	-	NM_024156	0
Nonlesioned	15	21	697	1	17	-	51,216,107	100	4-23 (23)	11,165					<i>Trim27</i>	12,351	-	NM_001134974	0
Nonlesioned	16	27	1000	145	1	-	81,102,788	100	2-30 (31)	79,302					<i>Cyp2s1</i>	15,023	-	NM_001107495	0
Nonlesioned	16	27	1000	1	16	+	88,133,136	100	4-23 (24)	1,806,159					<i>Sic10a2</i>	243,838	+	NM_017222	0
Nonlesioned	16	27	1000	5	6	-	47,958,552	100	81		67,188	In16	94.775		<i>Tpo</i>	70,892	-	NM_019353	0
Lesioned	6	51	397	3	8	-	69,935,674	100	3-22 (24)		673	In1	4.868		<i>Oatz2</i>	13,824	+	NM_001109899	0
Lesioned	7	57	535	1	16	+	20,336,721	96.84	96		8691	Ex3	87.886	71,149	<i>MGC72612</i>	13,960	+	NM_001009538	0
Lesioned	7	57	535	2	16	-	79,570,945	95	20						<i>Cln8</i>	9889	-	NM_001007686	0
Lesioned	7	57	535	1	17	+	35,793,267	99.65	286	275,621					<i>Cdh1</i>	227,392	-	NM_001014145	0
Lesioned	7	57	535	1	17	+	69,041,211	100	20		82,169	In2	14.027	19,972	<i>Ryr2</i>	585,775	+	NM_032078	0
Lesioned	7	57	535	1	3	-	56,124,081	100	20						<i>Chn1</i>	42,613	-	NM_032083	0
Lesioned	7	57	535	1	4	+	114,228,958	100	92		85,027	In1	10.668		<i>Lrrm4</i>	79,7018	+	NM_001134746	0
Lesioned	7	57	535	1	23	-	79,829,941	100	3-25 (35)	382,941					<i>Mageb18</i>	2253	-	NM_001044246	0
Lesioned	8	63	904	2032	2	-	220,111,914	98.57	2-281 (281)		4653	In4	29.554		<i>Mettl14</i>	15,744	-	NM_001106470	0

Chr, chromosome; IDLV, integration-deficient lentiviral vector; IL, integration locus; In, intron; Ex, exon; TSS, transcription start site.