

Supplementary Table 9. Primers and probes used for validation

A. Primers for making isoform specific probes.

Probes	Forward primer	Reverse primer	Probe size
Cd44 Ect	GGCTGATATAGACAGAATC AGCACCAGTGCTCATGGAG	CGTTGGAGTCAGTAGCAAGA GTCACCTCAGTTTCTCC	~700 nts
Cd44 TOT	GTACCGGTCCATCTTCCAT CTTGACCCGTTGTGC	GGAAGATCCAGGAGCAATG GGACATCCTGGCAGATG	~730 nts

B. Basescope probes were custom ordered from Advanced Cell Diagnostics for detecting skipping or inclusion of small exons. The catalog number (Cat No.) and the type of differential exon usage for the Basescope probes are as follows.

Gene	Probe name	Cat No.	Detecting isoforms
<i>Flnb</i>	BaseScope™ Probe- BA-Mm-Flnb-tvX1-E29E30	709401	Skipping
	BaseScope™ Probe- BA-Mm-Flnb-tv2-E30E31	709391	Inclusion
<i>Enah</i>	BaseScope™ Probe- BA-Mm-Enah-tv1-E12E13	709371	Skipping
	BaseScope™ Probe- BA-Mm-Enah-tvX2-E13E14	709361	Inclusion
<i>Slk</i>	BaseScope™ Probe- BA-Mm-Slk-tv2-E12E13	709431	Skipping
	BaseScope™ Probe- BA-Mm-Slk-tv1-E13E14	709421	Inclusion

C. Primers for RT-PCR validation:

Gene	Forward primer	Reverse primer	PCR product sizes
<i>Lef1</i>	AGCTCCTGAAATCCC CACCTTCTAC	TGGATGAGGGATG CCAGTTGTGTGG	126 bp, 217 bp
<i>Evi5</i>	AATCCAGTCAGCTTA CCAAGTC	GGCTTCACTCAGT CTGGCTT	242 bp, 278bp, 426 bp

<i>Lrrfip2</i>	ACAACGCCTCTAAGT GGGAA	CTGCACATGTGTTT CTGCCT	290 bp, 362 bp
<i>Numa1</i>	CAAGTACGAAGGTGC CAAGG	CTTGTAATGCTCAG CTGCCT	262 bp, 304 bp
<i>Ocr1</i>	TCGAGAAGTTCCTGT CACCA	TCTGCTGTA ACTCC TCCTGC	177 bp, 221 bp
<i>Map2</i>	CTGCCGGACCTGAAG AATGT	GGTACGTGGTGAG CATTGTC	262 bp, 344 bp
<i>Phactr4*</i>	GCAGTGATAAGTTCA AAGAGACA	GCTTCCAGTTGAG CCAAGTC	203 bp, 278bp*, 284 bp
<i>Plod2</i>	TGGGTACTATGCTCG CTCTG	GCAGTTGATATCA GCCGTCC	252 bp, 315 bp
<i>Gpr137</i>	AAGCGTCGGCCAGA GATGAG	GCTGCCAGGTTGT AACAGGC	111 bp, 337 bp
<i>Myo1b</i>	GAAGCATCAGAAGCG CTGTA	ACAGCAACTGCAT GCTTACG	123 bp, 210 bp
<i>Slain2</i>	ATACCTCGAATGCAG CCTCAG	GTGAGGAGGTGGT TTGTGTGA	169 bp, 247 bp
<i>Sorbs1</i>	CAGCTGATTA CTGG AGTCC	TGTAGATGTAAACA ACGTCTCC	157 bp, 315 bp
<i>Mta1</i>	GCAGCACAATGGGGT AGATG	GTCGATCCAGTTC ATTCGCC	163 bp, 199 bp
<i>Scarb1</i>	CTGATGCCCCAGGTT CTTCA	GGCTTATAGTGTCT TCAGGAC	118 bp, 247 bp
<i>Postn</i> exon 17	TTTGTTTCGTGGCAGC ACCTTC	CTCCGTGGATCAC TTCTGTCA	136 bp, 217 bp
<i>Postn</i> exon 21	ACAGGAGGTGGAGA AACAGG	GTCAGTGTGGTGG CTCTTACA	215 bp, 299 bp
<i>Syne2</i>	TCATGAAGACGACGA GGAGG	CTCAGTCCTGTCA CCTTCCA	139 bp, 208 bp
<i>Exoc1</i>	TGAAGATGACTGGCA CCTCT	TGTTCCCATGTC CAGTAGG	156 , 201 bp

*Phactr4 primers detect an extra PCR product, size of 278 bp, from A3SS beside the two predicted PCR products resulted from SE (203 bp and 284 bp).