

SUPPLEMENTAL MATERIAL

Rouaud et al., <http://www.jem.org/cgi/content/full/jem.20131385/DC1>

Table S1 starts on next page.

Table S1.  $S_{\mu}-\sigma_{\delta}$ ,  $S_{\mu}-S_{\gamma,1}$  and  $S_{\mu}-S_{\gamma,3}$  junctions

Sequence	Junction
<b><math>S_{\mu}-\sigma_{\delta}</math> junctions in <i>Wt</i> mice</b>	
<u>GCCCTAGTAAGCGAGGCTCTAAAAAGCA</u>	$S_{\mu}$
<u>GCCCTAGTAAGCGAGGCTCTAAAAAGCAAGCTCTGCTCTGTCCCCAGCCC</u> <u>AGCAAGCTCTGCTCTGTCCCCAGCCC</u>	#1 Short homology (1-5 bp) $\sigma_{\delta}$
<u>TGGAGTAGCTGAGATGGGGTGAGATGG</u>	$S_{\mu}$
<u>TGGAGTTGCTGAGATGGGGTGAGAAAGGAAAGAGTAGTGCAGACAGAACC</u> <u>TGAGAAGGAAGAGTAGTGCAGACAGAACC</u>	#2 Short homology (>5 bp) $\sigma_{\delta}$
<u>TGAGCTGGGGTGAGCTGGGCTG</u>	$S_{\mu}$
<u>TGAGCTGGGGTGAGCTGGGGTGGCTGTTCTGTTAGAGTCACAAAAGAAT</u> <u>TGGCTGTTCTGTTAGAGTCACAAAAGAAT</u>	#3 Short homology (1-5 bp) $\sigma_{\delta}$
<u>GTGGGCTTCTCTGAGCGCTTCTAA</u>	$S_{\mu}$
<u>GTGGGCTTCTCTGAGCGCTTCTCA...CAGAGTGCTCAGGGGGCTATGAG</u> <u>CAAGCTGCTCAGGGGGCTATGAA</u>	#4 Large insertion (304 bp) $\sigma_{\delta}$
<u>GTGGGCTTCTCTGAGCGCTTCTAAAAAT</u>	$S_{\mu}$
<u>GTGGGCTTCTCTGAGCGCTTCTAAGAT...CAGAGTGCTCAGGGGGCTAT</u> <u>CAAGCTGCTCAGGGGGCTAT</u>	#5 Large insertion (301 bp) $\sigma_{\delta}$
<u>CACAGTAATGACCCAGACAGAGA</u>	$S_{\mu}$
<u>CACAGTAATGACCCAGACAGAGA...GAATGTTGGTTTTAGCAAGCAAGT</u> <u>GAATGTTGGTTTTAGCAAGCAAGT</u>	#6 Large insertion (465 bp) $\sigma_{\delta}$
<u>CAGGTCGGCTGGACTAACTATCC</u>	$S_{\mu}$
<u>CAGGTCGGCTGGACTAACTATCCCAGAACCTGAGAAGGAAGAGTAGTGCA</u> <u>TCCCAGAACCTGAGAAGGAAGAGTAGTGCA</u>	#7 Short homology (1-5 bp) $\sigma_{\delta}$
<u>TGGAGTGAGCTGAGCTGGGCTGA</u>	$S_{\mu}$
<u>TGGAGTGAGCTGAGCTGGGCTGACTCTGGCAAGAAGAGTGATACTGTCCA</u> <u>TGACTCTGGCAAGAAGAGTGATACTGTCCA</u>	#8 Short homology (1-5 bp) $\sigma_{\delta}$
<u>GGGCTTCTCTGAGCGCTTCTAAAAAT</u>	$S_{\mu}$
<u>GGGCTTCTCTGAGCGCTTCTAAAAATTATCCCAAAGCTCTGAGGCCATAGC</u> <u>TTATCCCAAAGCTCTGAGGCCATAGC</u>	#9 Short homology (1-5 bp) $\sigma_{\delta}$
<u>GAGCGCTTCTAAAAATGCGCTAAACT</u>	$S_{\mu}$
<u>GAGCGCTTCTAAAAATGCGCTAAACT...GCTGGTATATGACATAGGGTAT</u> <u>GCTGGTATATGACATAGGGTAT</u>	#10 Large insertion (241 bp) $\sigma_{\delta}$
<u>AATGACCCAGACAGAGAAGGCCAG</u>	$S_{\mu}$
<u>AATGACCCAGACAGAGAAGGCCAG...GACAGATTCTCCCTGCTGCACAG</u> <u>GACAGATTCTCCCTGCTGCACAG</u>	#11 Large insertion (56 bp) $\sigma_{\delta}$
<u>GCTAAACTGAGGTGATTACTCTGA</u>	$S_{\mu}$
<u>GCTAAACTGAGGTGATTACTCTGACTTGGGGAAAAGGAGTCAGGCTGCTCT</u> <u>TGACTTGGGGAAAAGGAGTCAGGCTGCTCT</u>	#12 Short homology (1-5 bp) $\sigma_{\delta}$
<u>TGGGTGGGCTTCTCTGAGCGCTTCT</u>	$S_{\mu}$
<u>TGGGTGGGCTTCTCTGAGCGCTTCT...TGCTCAGGGGGCTATGAGAATA</u> <u>TGCTCAGGGGGCTATGAGAATA</u>	#13 Large insertion (311 bp) $\sigma_{\delta}$
<u>AAACTGGAATGAACTTCATTAATCTAGGTTGAA</u>	$S_{\mu}$
<u>AAACTGGAATGAACTTCATTAATCTAGGTTGAAAAGATAAACCTGGGCTG</u> <u>TGAAAAGATAAACCTGGGCTG</u>	#14 Short homology (1-5 bp) $\sigma_{\delta}$
<u>CCTAAATGAAGTAGACTGTAATGAA</u>	$S_{\mu}$
<u>CCTAAATGAAGTAGACTGTAATGAATGATAAAAAGGAACCTGACATGTTT</u> <u>TGATAAAAAGGAACCTGACATGTTT</u>	#15 Perfectly matched $\sigma_{\delta}$

Sequence	Junction
<u>CTATGCTACGCTGTGTTGGGGTGAG</u>	S $\mu$
CTATGCTACGCTGTGTTGGGGTGAG <u>GACATTGAAAATATTTGATATCCCA</u>	#16 Short homology (1-5 bp)
<u>GACATTGAAAATATTTGATATCCCA</u>	$\sigma\delta$
<u>AAAAAGCATGGCTGAGCTGAGATGG</u>	S $\mu$
AAAAAGCATGGCTGAGCTGAGATGG <u>TACAAGCTGCTCAGGGGGCTATGAG</u>	#17 Short homology (>5 bp)
<u>AGATGATAACAAGCTGCTCAGGGGGCTATGAG</u>	$\sigma\delta$
<u>GCTTAACCGAGATGAGCCAAACTGG</u>	S $\mu$
GCTTAACCGAGATGAGCCAAACTGGTGTCCAGACCTCACCTTTGTCCCCA	#18 Perfectly matched
<u>TGTCCAGACCTCACCTTTGTCCCCA</u>	$\sigma\delta$
<u>TCATTAATCTAGGTTGAATAGAGCT</u>	S $\mu$
TCATTAATCTAGGTTGAATAGAGCTTTAAGGCCCTTCTCCCCTGTCTTCT	#19 Short homology (>5 bp)
<u>ATAGGGCTTTAAGGCCCTTCTCCCCTGTCTTCT</u>	$\sigma\delta$
<u>GTGAGGTGATCTGAAATGAGCTACT</u>	S $\mu$
GTGAGGTGATCTGAAATGAGCTACTGCCATAGGTGGCACTTTGCCCCAGC	#20 Short homology (1-5 bp)
<u>CTGCCATAGGTGGCACTTTGCCCCAGC</u>	$\sigma\delta$
<u>GGGGTGAAGCTGAGCTGAGCTGGGGT</u>	S $\mu$
GGGGTGAAGCTGAGCTGAGCTGGGGT--GACAAAGATGATGGTGACAGAGA	#21 Short homology (1-5 bp)
<u>GGGGTTTCAGACAAAGATGATGGTGACAGA</u>	$\sigma\delta$
<b>S<math>\mu</math>-<math>\sigma\delta</math> junctions in 3'RR-deficient mice</b>	
<u>CTGGGCTGAGCTGGGGTGAG</u>	S $\mu$
CTGGGCTGAGCTGGGGTGAGTGATACTGTCCAGACCTCACCTTTGTCCCC	#1 Short homology (1-5 bp)
<u>GAGTGATACTGTCCAGACCTCACCTTTGTCCCC</u>	$\sigma\delta$
<u>CACAGTAATGACCCAGACAGAGA</u>	S $\mu$
CACAGTAATGACCCAGACAGAGA...TGAATGTTGGTTTCAGCAAGCAAA	#2 Large insertion (464 bp)
<u>TGAATGTTGGTTTCAGCAAGCAAA</u>	$\sigma\delta$
<u>GCGCTAAACTGAGGTGATTACTCTGA</u>	S $\mu$
GCGCTAAACTGAGGTGATTACTCTGACTTGGGGAAAAGGAGTCAGGCTGCT	#3 Short homology (1-5 bp)
<u>TGACTTGGGGAAAAGGAGTCAGGCTGCT</u>	$\sigma\delta$
<u>CTCAGCTATGCTACGCTGTGTTGGG</u>	S $\mu$
CTCAGCTATGCTACGCTGTGTTGGGCCAGACTCCTGGCCTCTAGAACAGG	#4 Perfectly matched
<u>CCAGACTCCTGGCCTCTAGAACAGG</u>	$\sigma\delta$
<u>CAGTAATGACCCAGACAGAGA</u>	S $\mu$
CAGTAATGACCCAGACAGAGA...ATGTTGGTTTCAGCAAGCAAGTCTGG	#5 Large insertion (467 bp)
<u>ATGTTGGTTTCAGCAAGCAAGTCTGG</u>	$\sigma\delta$
<u>GCCAGACTCATAAAGCTTGCTGAGC</u>	S $\mu$
GCCAGACTCATAAAGCTTGCTGAGCCTCTAGAACAGGGAAAAGAACAGAAT	#6 Short homology (1-5 bp)
<u>GCCTCTAGAACAGGGAAAAGAACAGAAT</u>	$\sigma\delta$
<u>AGCCACAGTAATGACCCAGACAGAGA</u>	S $\mu$
AGCCACAGTAATGACCCAGACAGAGA...GAATGTTGGTTTCAGCAAGCA	#7 Large insertion (465 bp)
<u>GAATGTTGGTTTCAGCAAGCA</u>	$\sigma\delta$
<u>AGATGAGCCAAACTGGAATGAACTTC</u>	S $\mu$
AGATGAGCCAAACTGGAATGAACTTCAGAGAAGTGTGGGCCACAGCAAGCT	#8 Short homology (1-5 bp)
<u>CCAGAAGTGTGGGCCACAGCAAGCT</u>	$\sigma\delta$

Sequence	Junction
<u>GGGTGAGCTGAGCTGGGTGAGCTGAGCT</u> GGGTGAGCTGAGCTGGGTGAGCTGAGCTGTGATACTGTCCAGACCTCACC <u>GTGATACTGTCCAGACCTCACC</u>	Sμ #9 Perfectly matched σδ
<u>ACTTCATTAATCTAGGTTGA</u> ACTTCATTAATCTAGGTTGAGAACATTTTTTTTTTTGGGACTGAGTCATTTT <u>TTGGGACTGAGTCATTTT</u>	Sμ #10 Large insertion (11 bp) σδ
<u>TAAACTCTACTGCCTACACTGGACT</u> TAAACTCTACTGACTACACTGGACTCTGGAATTGGATGATGAACCTGAC <u>GACTCTGGAATTGGATGATGAACCTGAC</u>	Sμ #11 Short homology (1-5 bp) σδ
<u>TGGAATGAACTTCATTAATCTAGG</u> TGGAATGAACTTCATTAATCTAGGGACATTGAAAATATTTGATATCCCAG <u>GGGACATTGAAAATATTTGATATCCCAG</u>	Sμ #12 Short homology (1-5 bp) σδ
<u>GATGGGTGGGCTTCTCTGAGCGCTTCT</u> GATGGGTGGGCTTCTCTGAGCGCTTCT...TGCTCAGGGGGCTATGAGAA <u>TGCTCAGGGGGCTATGAGAA</u>	Sμ #13 Large insertion (311 bp) σδ
<u>AACTCTCCAGCCACAGTAATGACCCAG</u> AACTCTCCAGCCACAGTAATGACCCAGTCTGGCGGGGGGGGGTGTCA <u>AGTCTGGCGGGGGGGGGTGTCA</u>	Sμ #14 Short homology (1-5 bp) σδ
<u>CTGGGCTTGAGCCAAAATGAAGTAG</u> CTGGGCTTGAGCCAAAATGAAGTAGCTGAGATGTTGGTTTTAGCAAGCAA <u>CATGAATGTTGGTTTTAGCAAGCAA</u>	Sμ #15 Perfectly matched σδ
<u>GTTGAGAGCCCTAGTAAGCGAGGCTCT</u> GTTGAGAGCCCTAGTAAGCT--GCTCTGCTCAGATGATAACAAGCTGCTCA <u>GCTCTGCTCAGATGATAACAAGCTGCTCA</u>	Sμ #16 Short homology (1-5 bp) σδ
<u>GTTGAGAGCCCTAGTAAGCGAGGCTCT</u> GTTGAGAGCCCTAGTAAGCGAGGC-CTCTCTTGTCTCTGGGATACTGT <u>CTTTTGTCTCTCTGGGATACTGT</u>	Sμ #17 Short homology (1-5 bp) σδ
<u>AGCTGGGGTGAGCTGAGCTGAGC</u> AGCTGGGGTGAGCTGAGCTGAGC...TCACCTTTGTCCCAGTTCCATGT <u>TCACCTTTGTCCCAGTTCCATGT</u>	Sμ #18 Large insertion (299 bp) σδ
<u>AGCTAGGGTGAGCTGAGCTG</u> AGCTAGGGTGAGCTGAGCTGAGAAGAGTAGGAGGTAGATCTCTTCCCTAAG <u>AGAAGAGTAGGAGGTAGATCTCTTCCCTAAG</u>	Sμ #19 Perfectly matched σδ
<u>GGCTGAGCTGGGGTGAGCTGAGC</u> GGCTGAGCTGGGGTGAGCTGAGC...TGATGTCACCTTTGTCCCAGTTC <u>AGACCTCACCTTTGTCCCAGTTC</u>	Sμ #20 Large insertion (129 bp) σδ
<u>TTCTAAAATGCGCTAAACTGAGGTGATT</u> TTCTAAAATGCGCTAAACTGAGGTGATTGATGCCAACCCCTGATTCAGCAC <u>TTGATGCCAACCCCTGATTCAGCAC</u>	Sμ #21 Short homology (1-5 bp) σδ
<u>GGGCTGAGCTGGGGTGAGCTGGGCTG</u> GGGCTGAGCTGGGGTGAGCTGGGGTGGCTGTTCTGTTAGAGTCACAAAA <u>GGCTGGCTGTTCTGTTAGAGTCACAAAA</u>	Sμ #22 Short homology (1-5 bp) σδ
<u>GCTAAGCTAAACTAGGCTGGCTTA</u> GCTAAGCTAAACTAGGCTGGCTTA...AGAACCTGAGAAGGAAGAGTAGT <u>AGAACCTGAGAAGGAAGAGTAGT</u>	Sμ #23 Large insertion (159 bp) σδ
<u>AGGTTGAATAGAGCTAAACTCTA</u> AGGTTGAATAGAGCTAAACTCTA...GAGAAGGAAGAGTAGTGCAGACAG <u>GAGAAGGAAGAGTAGTGCAGACAG</u>	Sμ #24 Large insertion (250 bp) σδ



Sequence	Junction
<u>AGAGAAAGCCAGACTCATAAAGCTT</u> AGAGAAAGCCAGACTCATAAAGCTT <u>ACAGGTGAGCTGGGGTAGGAGGGAG</u> <u>TATAGGTGAGCTGGGGTAGGAGGGAG</u>	S <sub>μ</sub> #3 Short homology (1-5 bp) S <sub>γ3</sub>
<u>CCACAGTAATGACCCAGACAGAGAA</u> CCACAGTAATGACCCAGACAGAGAACTGGGGTAGGAGGGAGTATGAGGAC <u>CTGGGGTAGGAGGGAGTATGAGGAC</u>	S <sub>μ</sub> #4 Perfectly matched S <sub>γ3</sub>
<u>CCCAGACAGAGAAGGCCAGACTC</u> CCCAGACAGAGAAGGCCAGACTC...CTACAGGTGAGCTGGGTTGGATGA <u>CTACAGGTGAGCTGGGTTGGATGA</u>	S <sub>μ</sub> #5 Large insertion (19 bp) S <sub>γ3</sub>
<u>ACAGTAATGACCCAGACAGAGAAGGCCA</u> ACAGTAATGACCCAGACAGAGAAAGCCAC <u>GATGGAAATGTGAATAACCTG</u> <u>GATGGAAATGTGAATAACCTG</u>	S <sub>μ</sub> #6 Insertion (1 bp) S <sub>γ3</sub>
<u>GCCCTAGTAAGCGAGGCTCTAAAAA</u> GCCCTAGTAAGCGAGGCTCTAAAAACGAGTATGAGGACTAGGTTGGGCAG <u>GAGTATGAGGACTAGGTTGGGCAG</u>	S <sub>μ</sub> #7 Insertion (1 bp) S <sub>γ3</sub>
<u>AAGGGAACAAGGTTGAGAGCCCTA</u> AAGGGAACAAGGTTGAGAGCCCTACCAGGATAAGTGGGAGTATGGAGACC <u>CCGGGGTAAGTGGGAATATGGAGACC</u>	S <sub>μ</sub> #8 Perfectly matched S <sub>γ3</sub>
<u>GGGAACAAGGTTGAGAGCCCTAGTA</u> GGGAACAAGGTTGAGAGCCCTAGTATAGGATATTAAGCTGAGCAGCTACA <u>TAGGATATTAAGCTGAGCAGCTACA</u>	S <sub>μ</sub> #9 Perfectly matched S <sub>γ3</sub>
<u>GAGCTGAGATGAGCTGGGGTGAGCTCA</u> GAGCTGAGATGAGCTGGGGTGAGCTC <u>ATCACAGGGTCCCAGGTTATGCAG</u> <u>ATCACAGGGTCCCAGGTTATGCAG</u>	S <sub>μ</sub> #10 Short homology (1-5 bp) S <sub>γ3</sub>
<u>GAATGAGCTGGGCCACTAAGCTAA</u> GAATGAGCTGGGCCACTAAGCTAA...TGGGGTAGGAGGGAGTATGAGGA <u>TGGGGTAGGAGGGAGTATGAGGA</u>	S <sub>μ</sub> #11 Large insertion (29 bp) S <sub>γ3</sub>
<u>GAACTGGAATGAGCTGGGCCGCTAAGCTAAA</u> GAACTGGAATGAGCTGGGCCGCTAAGCTA <u>CAGGTGAGCTGGGTTGGATGG</u> <u>AGCTAAAGGTGAGCTGGGTTAGATGG</u>	S <sub>μ</sub> #12 Short homology (>5 bp) S <sub>γ3</sub>
<u>GAACTGGAATGAGCTGGGCCGCTAA</u> GAACTGGAATGAGCTGGGCCGCTAAAGCTACAGGTGAGCTGGGTTGGATG <u>AGCTACAGGTGAGCTGGGTTGGATG</u>	S <sub>μ</sub> #13 Perfectly matched S <sub>γ3</sub>
<u>GGCTTGAGCCAAAATGAAGTAGACTGTA</u> GGCTTGAGCCAAAATGAAGTAGACT <u>ATACTAGGTTGGGCAGCTACAGGTG</u> <u>ACTAGGTTGGGCAGCTACAGGTG</u>	S <sub>μ</sub> #14 Short homology (1-5 bp) S <sub>γ3</sub>
<u>GCTTGAGCCAAAATGAAGTAGACTG</u> GCTTGAGCCAAAATGAAGTACACT <u>GGTGAGCTGGGTTGGATGGAAATGTG</u> <u>GGTGAGCTGGGTTGGATGGAAATGTG</u>	S <sub>μ</sub> #15 Short homology (1-5 bp) S <sub>γ3</sub>
<u>GACTGTAATGAACTGGAATGAGCTG</u> GACTGTAATGAACTGGAATGAGCT <u>GTGAGCTGGGGTAGGAGGGAGTATGA</u> <u>GTGAGCTGGGGTAGGAGGGAGTATGA</u>	S <sub>μ</sub> #16 Short homology (1-5 bp) S <sub>γ3</sub>
<u>CGCTAAACTGAGGTGATTACTCTG</u> CGCTAAACTGAGGTGATTACTCTGGAGACCTGGCTGGGGAGCTGAGGTAG <u>TGGAGACCTGGCTGGGGAGCTGAGGTAG</u>	S <sub>μ</sub> #17 Short homology (1-5 bp) S <sub>γ3</sub>
<u>TCTGAGGTAAGCAAAGCTGGGCTTG</u> TCTGAGGTAAGCAAAGCTGGGCTTG <u>CAGCTGGGGTAGGAGGGAGTATGAG</u> <u>AGCTGGGGTAGGAGGGAGTATGAG</u>	S <sub>μ</sub> #18 Insertion (1 bp) S <sub>γ3</sub>

Sequence	Junction
<u>AAAAGCATGGCTGAGCTGAGATGGGTGG</u> AAAAGCATGGCTGAGCTGAGATGGG <u>GGGTGGGTGGGGTTGTGAGGACCAG</u> <u>GGGGTGGGTGGGGTTGTGAGGACCAG</u>	S <sub>μ</sub> #19 Short homology (1-5 bp) S <sub>γ3</sub>
<u>TAGACTGTAATGAACTGGAATGAGC</u> TAGACTGTAATGAACTGGAATGAGC <u>CGTATCAGATCACAGGGTCCCAGG</u> <u>GCTATCAGATCACAGGGTCCCAGG</u>	S <sub>μ</sub> #20 Insertion (1 bp) S <sub>γ3</sub>
<u>GAGATGGGTGGGCTTCTCTGAGC</u> GAGATGGGTGGGCTTCTCTGAGC. . . <u>GAGCTGGGTGGATGGAAATGTGA</u> <u>GAGCTGGGTGGATGGAAATGTGA</u>	S <sub>μ</sub> #21 Large insertion (92 bp) S <sub>γ3</sub>
<u>AAACTGAGGTGATTACTCTGAGGTA</u> AAACTGAGGTGATTACTCTGAGGTA <u>AGGGGAGCTGGGCCTATCAGATCACA</u> <u>AGGGGAGCTGGGGCTATCAGATCACA</u>	S <sub>μ</sub> #22 Short homology (1-5 bp) S <sub>γ3</sub>
<u>TGAGTGCTTCTAAAATGCTCTAA</u> TGAGTGCTTCTAAAATGCTCTAA <u>TACAGGGTCCCAGGTTATGCAGCTCC</u> <u>ATCAGGGTCCCAGGTTATGCAGCTCC</u>	S <sub>μ</sub> #23 Short homology (1-5 bp) S <sub>γ3</sub>
<u>AAATGCGCTAAACTGAGGTGATTA</u> AAATGCGCTAAACTGAGGTGATTA <u>TGGGGCTATCAGATCACAGGGTCCC</u> <u>TGGGGCTATCAGATCACAGGGTCCC</u>	S <sub>μ</sub> #24 Insertion (1 bp) S <sub>γ3</sub>
<u>CTTCTCTGAGTGCTTCTAAAATGCGC</u> CTTCTCTGAGTGCTTCTAAAATGCGC <u>CAGATCACAGGGTCCCAGGTTATGC</u> <u>CAGATCACAGGGTCCCAGGTTATGC</u>	S <sub>μ</sub> #25 Short homology (1-5 bp) S <sub>γ3</sub>
<u>TGAGGTAAGCAAAGCTGGGCTTGAG</u> TGAGGTAAGCAAAGCTGGGCTT <u>GAGACCTGGCTGGGGAGCTGAGGTAGGT</u> <u>GAGACCTGGCTGGGGAGCTGAGGTAGGT</u>	S <sub>μ</sub> #26 Short homology (1-5 bp) S <sub>γ3</sub>
<u>ATGAAGTAGACTGTAATGAACTG</u> ATGAAGTAGACTGTAATGAACTGTAGGTTGGGCAGCTACAGGTGAGCTGG <u>TAGGTTGGGCAGCTACAGGTGAGCTGG</u>	S <sub>μ</sub> #27 Perfectly matched S <sub>γ3</sub>
<u>AACTTCATTAATCTAGGTTGAATAG</u> AACTTCATTAATCTAGGTTGAATAGGAGGTGAGCTGGGTGGATGGAAAT <u>AGGTGAGCTGGGTGGATGGAAAT</u>	S <sub>μ</sub> #28 Insertion (1 bp) S <sub>γ3</sub>
<u>AGCTGAGCTTGGCTGAGCTAGGGTG</u> AGCTGAGCTTGGCTGAGCTAGGGTGT <u>CACAGGGTCCCAGGTTATGCAGCT</u> <u>TCACAGGGTCCCAGGTTATGCAGCT</u>	S <sub>μ</sub> #29 Perfectly matched S <sub>γ3</sub>
<u>AGTAGCTGAGATGGGGTGAGCTG</u> AGTAGCTGAGATGGGGTGAGCTG. . . <u>TGAAGGGCCACAGGGGAGCTGGGG</u> <u>TGAAGGGCCACAGGGGAGCTGGGG</u>	S <sub>μ</sub> #30 Large insertion (118 bp) S <sub>γ3</sub>
<u>CTGGAATGAACTTCATTAATCTAGG</u> CTGGAATGAACTTCATTAATCTAGG <u>ACTGGGGCTATCAGATCACAGGGTC</u> <u>CTGGGGCTATCAGATCACAGGGTC</u>	S <sub>μ</sub> #31 Insertion (1 bp) S <sub>γ3</sub>
<u>CTAGGCTGGCTTAACCGAGATGAGC</u> CTAGGCTGGCTTAACCGAGATGAGCGAGCTGGGTGGATGGAAATGTGAA <u>GAGCTGGGTGGATGGAAATGTGAA</u>	S <sub>μ</sub> #32 Perfectly matched S <sub>γ3</sub>
<u>TGAGCCAAACTGGAATGAACTTCAT</u> TGAGCCAAACTGGAATGAACTTCATGGAATGTGAATAACCTGCCTGAAG <u>ATGGAAATGTGAATAACCTGCCTGAAG</u>	S <sub>μ</sub> #33 Short homology (1-5 bp) S <sub>γ3</sub>
<u>TACACTGGACTGTTCTGAGCTGAGA</u> TACACTGGACTGTTCTGAGCTGAGAG <u>TCACAGGGTCCCAGGTTATGCAGC</u> <u>TCACAGGGTCCCAGGTTATGCAGC</u>	S <sub>μ</sub> #34 Insertion (1 bp) S <sub>γ3</sub>





Sequence	Junction
<u>ATGAGCTGGGGTGAGCTCAGCTATG</u> ATGAGCTGGGGTGAGCTCAGCTATG <u>TACAGGTGAGCTGGGGTAGGAGGGA</u> <u>AGGTGAGCTGGGGTAGGAGGGA</u>	S <sub>μ</sub> #51 Insertion (3 bp) S <sub>γ3</sub>
<u>TTAATCTAGGTTGAATAGAGCTAAA</u> TTAATCTAGGTTGAATAGAGCTAAA <u>TAGGTGAGCCAGGGTAAGTGGGAGT</u> <u>GGTGAGCCGGGGTAAGTGGGAGT</u>	S <sub>μ</sub> #52 Insertion (2 bp) S <sub>γ3</sub>
<u>GCTGTGTTGGGGTGAGCTGATCTGA</u> GCTGTGTTGGGGTGAGCTGATCTGAGGTGAG <u>ATGGGGTAGGAGGGAGTAT</u> <u>AGGTGAGCTGGGGTAGGAGGGAGTAT</u>	S <sub>μ</sub> #53 Short homology (1-5 bp) S <sub>γ3</sub>
<u>GAGCGCTTCTAAAATGCGCTAAACT</u> GAG <u>TGCTTCTAAAATGCGCTAAACT</u> <u>TAGATACAGGTGAGCTGGGTTAGATG</u> <u>TACAGGTGAGCTGGGTTAGATG</u>	S <sub>μ</sub> #54 Insertion (3 bp) S <sub>γ3</sub>
<u>GAAATGAGATACTCTGGAGTAGCTG</u> GAAATGAGATACTCTGGAGTAGCTGGAGTATGAGGACTAGGTTGGGCAGC <u>GGAGTATGAGGACTAGGTTGGGCAGC</u>	S <sub>μ</sub> #55 Short homology (1-5 bp) S <sub>γ3</sub>
<u>TTCTGAGCTGAGATGAGCTGGGGT</u> TTCTGAGCTGAGATGAGCTGGGGTGGGAACATAGGGTATTAAGCTGAGCA <u>GGTGGGAACATAGGGTATTAAGCTGAGCA</u>	S <sub>μ</sub> #56 Short homology (1-5 bp) S <sub>γ3</sub>
<u>ACTGTTCTGAGCTGAGATGAGCT</u> ACTGTTCTGAGCTGAGATGA <u>ACTAAGTACAGGTGAGCCAGGGTAAGTGGG</u> <u>TACAGGTGAGCCGGGGTAAGTGGG</u>	S <sub>μ</sub> #57 Insertion (3 bp) S <sub>γ3</sub>
<u>AAATGAGCTACTCTGGAGTAGCTGA</u> AAATGAGCTACTCTGGAGTAGCTGATAATATGGAGACCTGGCTGGGGAGC <u>AATATGGAGACCTGGCTGGGGAGC</u>	S <sub>μ</sub> #58 Insertion (1 bp) S <sub>γ3</sub>
<u>CTGAGCTGGGCTGAGCTGGACTGAG</u> CTGAGCTGGGCTGA <u>ACTAGACTGAGGTAGGTGGAAGCATAGGATATTAAG</u> <u>CTGAGGTAGGTGGGAACATAGGGTATTAAG</u>	S <sub>μ</sub> #59 Short homology (1-5 bp) S <sub>γ3</sub>
<u>GTGAGATGGGGTGAGCTGAACTGGG</u> GTGAGATGGGGTGAGCTGAACTGGGTGAG <u>TCAGGGTAAGTGGGAGTATGG</u> <u>GGTGAGCCGGGGTAAGTGGGAATATGG</u>	S <sub>μ</sub> #60 Short homology (1-5 bp) S <sub>γ3</sub>
<u>GAGCTGGGTGAGCTGAGCTAAGCTGG</u> GAGCTGGGTGAGCTGAGCTAATCTGGTGAGGTAGGTGG <u>AAGCATAGGATA</u> <u>TGAGGTAGGTGGGAACATAGGGTA</u>	S <sub>μ</sub> #61 Perfectly matched S <sub>γ3</sub>
<u>GGGCTGAGCTGGACCAAGCTGGGC</u> GGGCTGAGCTGGACCAAGCTGGGC . . . GAGGTAGGTGGAAGCATAGGATA <u>GAGGTAGGTGGAAGCATAGGATA</u>	S <sub>μ</sub> #62 Large insertion (96 bp) S <sub>γ3</sub>
<u>CTGAGATGAGCTGGGGTGAGCTCAG</u> CTGAGATGAGCTGGGGTGAGCTCAGGTGGAAGCATAGGATATTAAGCTGA <u>AGGTGGAAGCATAGGATATTAAGCTGA</u>	S <sub>μ</sub> #63 Short homology (1-5 bp) S <sub>γ3</sub>
<u>GCTGAGCTGGGTGAGCTGAGCTAAGCT</u> GCTGAGCTGGGTGAGCTGAGCTAAGCTACAGGTGAGCTGGGGTAGGAGGG <u>AGCTACAGGTGAGCTGGGGTAGGAGGG</u>	S <sub>μ</sub> #64 Short homology (1-5 bp) S <sub>γ3</sub>
<u>CTGGGGTGAGCTGAGCTGAGCTTG</u> CTGGGGTGAGCTGAGCTGAGCTTGCTGGACCAGGCTGGGCAGCTCTCAG <u>GGACCAGGCTGGGCAGCTCTCAG</u>	S <sub>μ</sub> #65 Insertion (3 bp) S <sub>γ3</sub>
<u>GGCTTCTCTGAGCGCTTCTAAAATGC</u> GGCTTCTCTGAGCGCTTCTAAAATGCTCAGGTTATGCAGCTCCTGGGTCA <u>CAGGTTATGCAGCTCCTGGGTCA</u>	S <sub>μ</sub> #66 Insertion (1 bp) S <sub>γ3</sub>

Sequence	Junction
<u>GGGTGAGCTGAGCTAAGATGGGGTGAGC</u> GGGTGAGCTGAGCTAAGATGGGGTGAGCATGAGGTAGGTGGAAGCATAGG <u>GGTGAGCATGAGGTAGGTGGAAGCATAGG</u>	S $\mu$ #67 Short homology (>5 bp) S $\gamma$ 3
<u>CTGAGATGAGCTGGGGTGAGCTCA</u> CTGAGATGAGCTGGGGTGAGCTCA...TCACAGGGTCCCAGGTTATGCAG <u>TCACAGGGTCCCAGGTTATGCAG</u>	S $\mu$ #68 Large insertion (205 bp) S $\gamma$ 3
<u>CCCTAGTAAGCGAGGCTCTAAAAA</u> CCCTAGTAAGCGAGGCTCTAAAAA...CAGGTACAGGTGAGCTGGGTTGG <u>CAGGTACAGGTGAGCTGGGTTGG</u>	S $\mu$ #69 Large insertion (50 bp) S $\gamma$ 3
<b>S<math>\mu</math>-S<math>\gamma</math>1 junctions in <i>Wt</i> mice</b>	
<u>ATGACCCAGACAGAGAAGGCCAGAC</u> ATGACCCAGACAGAGAAGGCCAGACGACAGCTGAGCAAATACTACATAGC <u>AC-ACAGCTGAGCAAATACTACATAGC</u>	S $\mu$ #1 Short homology (1-5 bp) S $\gamma$ 1
<u>AGGCCAGACTCATAAAGCTTGCTGA</u> AGGCCAGACTCATAAAGCTTGCTGA...TACAGAGAAGCTGAGGCAGGTA <u>TACAGGGAAGCTGAGGCAGGTA</u>	S $\mu$ #2 Large insertion (126 bp) S $\gamma$ 1
<u>CCAGACTCATAAAGCTTGCTGAGCA</u> CCAGACTCATAAAGCTTGCTGAGCA...CTGAGGAGCTACCAAGGATCAG <u>CTGAGCAGCTACCAAGGATCAG</u>	S $\mu$ #3 Large insertion (30 bp) S $\gamma$ 1
<u>CGAGGCTCTAAAAAGCATGGCTGAG</u> CGAGGCTCTAAAAAGCACAAGCTGAGATGCTGGCTACTCATAGGGAAGCTG <u>ATGCTGGGTACTCATAGGGAAGCTG</u>	S $\mu$ #4 Perfectly matched S $\gamma$ 1
<u>CTGAGGTGATTACTCTGAGGTAAG</u> CTGAGGTGATTACTCTGAGGTAAG...TACTCATAGGGAAGCTGGGATAA <u>TACTCATAGGGAAGCTGGGATAA</u>	S $\mu$ #5 Large insertion (31 bp) S $\gamma$ 1
<u>TCATTAATCTAGGTTGAATAGAGCT</u> TCATTAATCTAGGTTGAATAGAGCTGATGGTATAGGTGACAGGATGGGGG <u>GCTGGTATAGGTGACAGGATGGGGG</u>	S $\mu$ #6 Perfectly matched S $\gamma$ 1
<u>CATTAATCTAGGTTGAATAGAGCTA</u> CATTAATCTAGGTTGAATAGAGCTAGGTTAGGTGGTATAGGTGACAGGAT <u>AGCTTAGCTGGTATAGGTGACAGGAT</u>	S $\mu$ #7 Short homology (1-5 bp) S $\gamma$ 1
<u>GCCTACACTGGACTGTTCTGAGCTG</u> GCCTACACTGGACTGTTCTGAGCTGGTATAGGTGACAGGATGGGGGATAA <u>AGCTGGTATAGGTGACAGGATGGGGGATAA</u>	S $\mu$ #8 Short homology (1-5 bp) S $\gamma$ 1
<u>GCTGAGATGAGCTGGGGTGAGCTCA</u> GCTGAGATGAGCTGGGGTGAGCTCATTAGATGGTATAGGTGACAGGATGG <u>TTAGCTGGTATAGGTGACAGGATGG</u>	S $\mu$ #9 Perfectly matched S $\gamma$ 1
<u>GAGCTAAACTCTACTGCCTACACTG</u> GAGCTAAACTCTACTGCCTACACTGAGTGTCTTTAGAGAACTGAGGCAA <u>TGAGTGTCTTTAGAGAACTGAGGCAA</u>	S $\mu$ #10 Short homology (1-5 bp) S $\gamma$ 1
<u>AGATGAGCTGGGGTGAGCTCAGCTA</u> AGATGAGCTGGGGTGAGCTCAGCTA...AGTGGGAGTGCAGAGATCCAAG <u>AGTGGGAGTGCAGAGATCCAAG</u>	S $\mu$ #11 Large insertion (59 bp) S $\gamma$ 1
<u>ACTCTGGAGTAGCTGAGATGGGGTG</u> ACTCTGGAGTAGCTGACATGGGGTGGTATAGGTGACAGGATGGGGGATAA <u>GTATAGGTGACAGGATGGGGGATAA</u>	S $\mu$ #12 Perfectly matched S $\gamma$ 1

Sequence	Junction
<u>GGAGTAGCTGAGATGGGGTGAGATG</u>	S <sub>μ</sub>
GGAGTAGCTGAGATGGGGTGAGAT <u>GAGAAACTGAGGCAAGTGGGAGTGCA</u>	#13 Short homology (1-5 bp)
	S <sub>γ1</sub>
<u>AGCTCAGCTATGCTACGCTGTGTTG</u>	S <sub>μ</sub>
AGCTCAGCTATGCTACGCTGTGTTG <u>ATGAGGCAGGTAAGAGTGTGGGAAC</u>	#14 Short homology (1-5 bp)
	S <sub>γ1</sub>
<u>GTGAGCTGGACTGAGCTGGGGTGAG</u>	S <sub>μ</sub>
GTGAGCTGGG <u>GCTGAGCTGGGGTGAGAGTACGGGTACACAGCTGAGCAAA</u>	#15 Short homology (1-5 bp)
	S <sub>γ1</sub>
<u>GTGAGCTGGGCTGAGCTGGGGTGAGAGTACGGGTACACAGCTGAGCAAA</u>	
<u>GTGAGCTGGGCTGAGCTGGGGTGAGAGTACGGGTACACAGCTGAGCAAA</u>	
<u>GCTGGGGTGAGCTGAGCTGAGCTGG</u>	S <sub>μ</sub>
GCTGGGGTGAGCTGAGCTGAGCT <u>GAGCTGGACCTAGTGGGGGTGTGGGAGACCTG</u>	#16 Short homology (1-5 bp)
	S <sub>γ1</sub>
<u>GCTGGGGTGAGCTGAGCTGAGCTGGACCTAGTGGGGGTGTGGGAGACCTG</u>	
<u>CCAGCCACAGTAATGACCCAGACA</u>	S <sub>μ</sub>
CCAGCCACAGTAATGACCCAGACAC <u>CTAGGGCAGCCAGGAGAAATGGAAGA</u>	#17 Insertion (1 bp)
	S <sub>γ1</sub>
<u>CCAGCCACAGTAATGACCCAGACACTAGGGCAGCCAGGAGAAATGGAAGA</u>	
<u>CCAGCCACAGTAATGACCCAGACACTAGGGCAGCCAGGAGAAATGGAAGA</u>	
<u>ACAGAGAAGGCCAGACTCATAAAGC</u>	S <sub>μ</sub>
ACAGAGAA <u>AGCCAGACTCATAAAGC</u> GCTGGTATAGGTGACAGGATGGGGG	#18 Perfectly matched
	S <sub>γ1</sub>
<u>ACAGAGAAAGCCAGACTCATAAAGCGCTGGTATAGGTGACAGGATGGGGG</u>	
<u>ACAGAGAAAGCCAGACTCATAAAGCGCTGGTATAGGTGACAGGATGGGGG</u>	
<u>CCCAGACAGAGAAGGCCAGACTCAT</u>	S <sub>μ</sub>
CCCAGACA <u>AGAAGGCCAGACTCAT</u> GAGGTCCAGTTGAGTGTCTTTAGAG	#19 Perfectly matched
	S <sub>γ1</sub>
<u>CCCAGACAAGAAGGCCAGACTCATGAGGTCCAGTTGAGTGTCTTTAGAG</u>	
<u>CCCAGACAAGAAGGCCAGACTCATGAGGTCCAGTTGAGTGTCTTTAGAG</u>	
<u>GGACTGAGCTGAGCTAGGGTGAGCT</u>	S <sub>μ</sub>
<u>AGACTGAGCTGAGCTAGGGTGAGCTA</u> ATACATGAGAGCTGGAGCTAGTAT	#20 Short homology (1-5 bp)
	S <sub>γ1</sub>
<u>AGACTGAGCTGAGCTAGGGTGAGCTAATACATGAGAGCTGGAGCTAGTAT</u>	
<u>AGACTGAGCTGAGCTAGGGTGAGCTAATACATGAGAGCTGGAGCTAGTAT</u>	
<u>GAAGGCCAGACTCATAAAGCTTGCT</u>	S <sub>μ</sub>
GAA <u>AGCCAGACTCATAAAGCTTT</u> CTCAGTCAAAAAACCACAGAAGAGCAGG	#21 Perfectly matched
	S <sub>γ1</sub>
<u>GAAAGCCAGACTCATAAAGCTTTCTCAGTCAAAAAACCACAGAAGAGCAGG</u>	
<u>GAAAGCCAGACTCATAAAGCTTTCTCAGTCAAAAAACCACAGAAGAGCAGG</u>	
<u>AGGTTGAGAGCCCTAGTAAGCGAGG</u>	S <sub>μ</sub>
AGGTTGAGAGCCCTAGTAAGCGAGGGGATTCTAAGCAGTCACAGAGAAGC	#22 Short homology (1-5 bp)
	S <sub>γ1</sub>
<u>AGGTTGAGAGCCCTAGTAAGCGAGGGGATTCTAAGCAGTCACAGAGAAGC</u>	
<u>AGGTTGAGAGCCCTAGTAAGCGAGGGGATTCTAAGCAGTCACAGAGAAGC</u>	
<u>TAATGAACTGGAATGAGCTGGGCC</u>	S <sub>μ</sub>
TAATGAACTGGAATGAGCTGGGCC <u>AGAAGGT</u> GAGGCAGGTAAGAGTGTGG	#23 Insertion (2 bp)
	S <sub>γ1</sub>
<u>TAATGAACTGGAATGAGCTGGGCCAGAAGGTGAGGCAGGTAAGAGTGTGG</u>	
<u>TAATGAACTGGAATGAGCTGGGCCAGAAGGTGAGGCAGGTAAGAGTGTGG</u>	
<u>TGGGTGGGCTTCTCTGAGCGCTTCTA</u>	S <sub>μ</sub>
TGGGTGGGCTTCTCTGAG <u>TGCTTCTACAGGTAAGCAGGGACAGGTGGAAG</u>	#24 Short homology (1-5 bp)
	S <sub>γ1</sub>
<u>TGGGTGGGCTTCTCTGAGTGCTTCTACAGGTAAGCAGGGACAGGTGGAAG</u>	
<u>TGGGTGGGCTTCTCTGAGTGCTTCTACAGGTAAGCAGGGACAGGTGGAAG</u>	
<u>CGCTAAGCTAAACTAGGCTGGCTTA</u>	S <sub>μ</sub>
CGCTAAGCTAAACTAGGCTGGCTTA . . .AGCTGGAGCTGATGGGTGTATA	#25 Large insertion (34 bp)
	S <sub>γ1</sub>
<u>CGCTAAGCTAAACTAGGCTGGCTTA . . .AGCTGGAGCTGATGGGTGTATA</u>	
<u>CGCTAAGCTAAACTAGGCTGGCTTA . . .AGCTGGAGCTGATGGGTGTATA</u>	
<u>GCTTCTAAAATGCGCTAAAAGT</u>	S <sub>μ</sub>
GCTTCTAAAATGCGCTAAAAGT <u>GAGGCAAATACTACATAGCTGGAGCTGAT</u>	#26 Perfectly matched
	S <sub>γ1</sub>
<u>GCTTCTAAAATGCGCTAAAAGTGAGGCAAATACTACATAGCTGGAGCTGAT</u>	
<u>GCTTCTAAAATGCGCTAAAAGTGAGGCAAATACTACATAGCTGGAGCTGAT</u>	
<u>ATTAATCTAGGTTGAATAGAGCTAA</u>	S <sub>μ</sub>
ATTAATCTAGGTTGAATAGAGCT <u>GATGGTATAGGTGACAGGATGGGGGAT</u>	#27 Perfectly matched
	S <sub>γ1</sub>
<u>ATTAATCTAGGTTGAATAGAGCTGATGGTATAGGTGACAGGATGGGGGAT</u>	
<u>ATTAATCTAGGTTGAATAGAGCTGATGGTATAGGTGACAGGATGGGGGAT</u>	
<u>GGAATGAGCTGGGCCGCTAAGCTAA</u>	S <sub>μ</sub>
GGAATGAGCTGGGCCGCTAAGCTAA <u>CTAAGGATCAGGGATAGACATGTAA</u>	#28 Short homology (1-5 bp)
	S <sub>γ1</sub>
<u>GGAATGAGCTGGGCCGCTAAGCTAACTAAGGATCAGGGATAGACATGTAA</u>	
<u>GGAATGAGCTGGGCCGCTAAGCTAACTAAGGATCAGGGATAGACATGTAA</u>	

Sequence	Junction
<u>GCTTCTAAAATGCGCTAAACTGAGG</u> GCTTCTAAAATGCGCTAAACTGAGG . . . GCAGTCACAGAGAAGCTGATCC GCAGTCACAGAGAACTGATCC	S <sub>μ</sub> #29 Large insertion (124 bp) S <sub>γ1</sub>
<u>CTGAGATGGGGTGAGATGGGGTGAG</u> CTGAGATGGGGTGAGATGGGGTGAGATCCAGGCTGAGCAGCTCCAGCTTA AGATCCAAGCTGAGCAGCTCCAGCTTA	S <sub>μ</sub> #30 Short homology (1-5 bp) S <sub>γ10</sub>
<u>AGCTGGGCTGAGCTGGACTGAGCTG</u> AGCTGGGCTGAGCTGGACTGAGCTGTAGTTGGG-ATTCTAAGCAGTCACA GTAGTTGGGGATTCTAAGCAGTCACA	S <sub>μ</sub> #31 Short homology (1-5 bp) S <sub>γ1</sub>
<u>CTGGAATGAGCTGGGCCGCTAAGCT</u> CTGGAATGAGCTGGGCCGCTAAGCT . . . GTAACCTGGACCTAGTGGGGGT GTAACCTGGAGCTAGTGGGGGT	S <sub>μ</sub> #32 Large insertion (64bp) S <sub>γ1</sub>
<u>CGCTAAGCTAAACTAGGCTGGCTTA</u> CGCTAAGCTAAACTAGGCTGACTTAGGTGCATGCTGGCTACTCATAGGGA GGTGCATGCTGGGTACTCATAGGGA	S <sub>μ</sub> #33 Perfectly matched S <sub>γ1</sub>
<u>GAATGAGCTGGGCCGCTAAGCTAAA</u> GAATGAGCTGGGCCGCTAAGCTAAAGGCTGGACTGGGGAGCCAAGGTAGG AAAGGCTGGACTGGGGAGCCAAGGTAGG	S <sub>μ</sub> #34 Short homology (1-5 bp) S <sub>γ1</sub>
<u>AGCTGAGCTGGGGTGAGCTGAGCTG</u> AGCTGAGCTGGGGTGAGCTGAGCTGATAAGGTACCAGGCTGAGCAGCTGA ATAAGGTACCAGGCTGAGCAGCTGA	S <sub>μ</sub> #35 Perfectly matched S <sub>γ1</sub>
<u>ACTTCATTAATCTAGGTTGAATAG</u> ACTTCATTAATCTAGGTTGAATAGTATACTACATAGCTGGAGCTGATGGC ATACTACATAGCTGGAGCTGATGGG	S <sub>μ</sub> #36 Insertion (1 bp) S <sub>γ1</sub>
<u>TCTAGGTTGAATAGAGCTAAACTCT</u> TCTAGGTTGAATAGAGCTAAACTCTGGTCCAGTTGAGTGTCTTTAGAGAA GGTCCAGTTGAGTGTCTTTAGAGAA	S <sub>μ</sub> #37 Perfectly matched S <sub>γ1</sub>
<u>CTAGGTTGAATAGAGCTAAACTCTA</u> CTAGGTTGAATAGAGCTAAACTCTATGAGAGCTGGAGCTAGTATGAAGGT ATGAGAGCTGGAGCTAGTATGAAGGT	S <sub>μ</sub> #38 Short homology (1-5 bp) S <sub>γ1</sub>
<u>CTACTGCCTACACTGGACTGTTCTG</u> CTACTGCCTACACTGGACTGTTCTGTTAATACATGAGAGCTGGAGCTAGT GCTACTACATGAGAGCTGGAGCTAGT	S <sub>μ</sub> #39 Short homology (1-5 bp) S <sub>γ1</sub>
<u>GAGCTGAGATGAGCTGGGGTGAGCT</u> GAGCTGAGATGAGCTGGGGTGAGCT . . . TGGTATAGGTGACAGGATGGGG TGGTATAGGTGACAGGATGGGG	S <sub>μ</sub> #40 Large insertion (36 bp) S <sub>γ1</sub>
<u>TGAGCTCAGCTATGCTACGCTGTGT</u> TGAGCTCAGCTATGCTACGCTGTGTATGAAGGTGGAGGTCCAGTTGAGTG GTATGAAGGTGGAGGTCCAGTTGAGTG	S <sub>μ</sub> #41 Short homology (1-5 bp) S <sub>γ1</sub>
<u>GGACTGAGCTGAGCTAGGGTGAGCTG</u> GGACTGAGCTGAGCTAGGGTGAGCTGGTATAGGTGACAGGATGGGGGATA AGCTGGTATAGGTGACAGGATGGGGGATA	S <sub>μ</sub> #42 Short homology (1-5 bp) S <sub>γ1</sub>
<u>GGTGAGCTGAGCTGGGCTGAGCTGG</u> GGTGAGCTGAGCTGGGCTGAGTTAAGCTGAGCAGCTGAAGGTAACCTGGAC GCTGAGCAGCTGAAGGTAACCTGGAG	S <sub>μ</sub> #43 Short homology (1-5 bp) S <sub>γ1</sub>
<u>TGAGCTGAGCTGAGCTTGACTGAGC</u> TGAGCTGAGCTGAGCTTGACTGAGC . . . AGTTGATGGCTGTATAAGGTAC AGCTGATGGGTGTATAAGGTAC	S <sub>μ</sub> #44 Large insertion (422 bp) S <sub>γ1</sub>

Sequence	Junction
<u>GCTAAGCTGGGGTGAGCTGAGCTGA</u>	S $\mu$
GCTAAGCTGGGGTGAGCTGAGCTGA . . . <u>TTAGCTGGTATAGGTGACAGGA</u>	#45 Large insertion (30 bp)
<u>TTAGCTGGTATAGGTGACAGGA</u>	S $\gamma$ 1
AAGCTGGGGTGAGCTGAGCTGAGCT	S $\mu$
<b>G</b> AGCTGGGGTGAGCTGAGCTGAGCT <u>GACCAGT</u> TTAGCTGGTATAGGTGAC	#46 Insertion (2 bp)
<u>CCAGCTTAGCTGGTATAGGTGAC</u>	S $\gamma$ 1

*Wt* mice: 21 S<sub>m</sub>-S<sub>d</sub> junctions (obtained after genomic extraction of MLN from 13 mice), 46 S<sub>m</sub>-S<sub>g1</sub> junctions, and 69 S<sub>m</sub>-S<sub>g3</sub> junctions (obtained after in vitro stimulation of splenocytes from 6 mice). 39RR-deficient mice: 35 S<sub>m</sub>-S<sub>d</sub> junctions (obtained after genomic extraction of MLN from 10 mice). Junctional microhomology sequences and insertions are underlined in black. Mutations are in bold letters. \*, Junction #35 contain a deletion of 125bps in S $\mu$ .