Supplemental Information

In Vivo Gene Editing of Muscle Stem Cells

with Adeno-Associated Viral Vectors in a Mouse

Model of Duchenne Muscular Dystrophy

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Table S1. Oligonucleotide sequences

| Primer Name	Primer sequence (5'-3')
Deletion PCR Primers	
DMDin22 -F	TTTGTTGATTCTAAAAATCCCATGT
DMDin23 -R	GGACTGAAGAACTTGGAGAAGGA
NestDMDin22-F	GTTTCACTGTAGGTAAGTTAAAATG
NestDMDin23-R	GGAGCAACTTTGGAAAGTAAA
Nextera Sequencing Primers	
DMDin22 Tn5-F	AAGCAGTGGTATCAACGCAGAGTAC ATTGCTTTATCAGATATTCTACT
DMDin23 Tn5-F	AAGCAGTGGTATCAACGCAGAGTAC TTCAAAAAGGAAGATGGTACAGTGTT
DMDEx22 Tn5-F	AAGCAGTGGTATCAACGCAGAGTAC GGATCCAGCAGTCAGAAAGC
DMDEx24 Tn5-F	AAGCAGTGGTATCAACGCAGAGTAC TCACCAACTAAAAGTCTGCATTG
Nextera-R	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG
i5+custom adapter forward primer	AATGATACGGCGACCACCGAGATCTACACGCCTGTCCGCGGAAGCAGTGGTATCAACGCAGAGTAC
Barcoded reverse primer	CAAGCAGAAGACGGCATACGAGAT [Barcode] GTCTCGTGGGCTCGG
Custom sequencing primer	CGGAAGCAGTGGTATCAACGCAGAGTAC
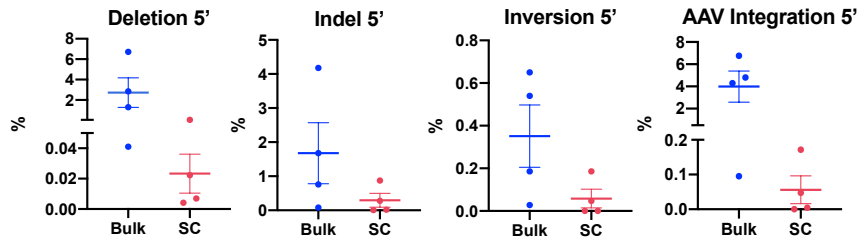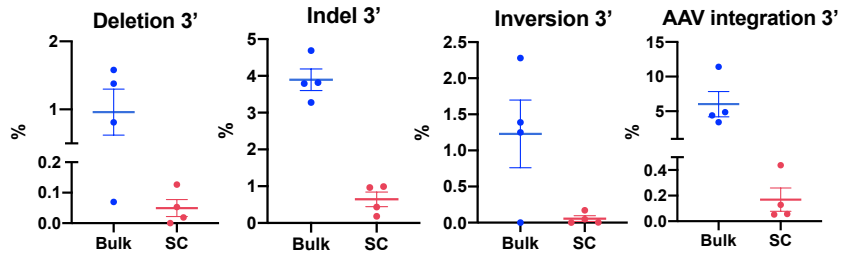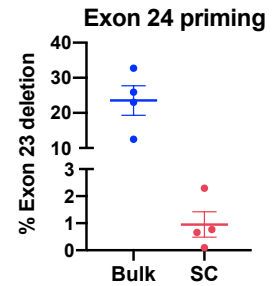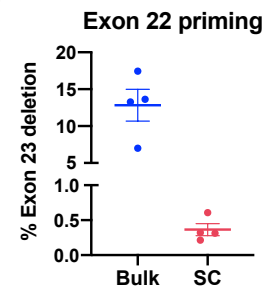
Figure S1. (A) Unbiased sequencing of satellite cell or bulk muscle genomic DNA after AAV9-CMV-CRISPR local administration quantifies the level of editing events for various gene-editing outcomes **(B)** Unbiased sequencing of satellite cell or bulk muscle mRNA after AAV9-CMV-CRISPR local administration quantifies the level of exon 23 deletion. (mean ± SEM, n = 4 mice).