SUPPLEMENTAL MATERIAL

Supplementary 1

14 dpt

Supplementary Figure 1. TRIM does not affect fibrosis in D2.*mdx* mice. At 14 dpt, fibrotic tissue deposition is unchanged following TRIM treatment in D2.*mdx* TA muscles. (n=5); Summary values are means ± SEM. Comparisons made vs. vehicle controls by two-tailed Student's *t* test, $p<0.05$ = significant. Scale bars = 200 μm

Supplementary 2

Supplementary Figure 2. *D2.mdx* mice do not express myosin heavy chain type I muscle fibers in the TA muscle. TRIM does not alter fiber type composition. (n=5-8/group); Summary values are means ± SEM, p<0.05 = significant. Scale bars = 100 μm

Supplementary 3

Supplementary Figure 3. Mitochondrial volume is unaffected following TRIM treatment. A-C) Representative immunoblots (top) of citrate synthase abundance and mean densitometric data (bottom) at A) 14 dpt, B) 70 dpt, and C) 140 dpt. (n=5-8); Summary values are means ± SEM. Comparisons made vs. vehicle controls by two-tailed Student's *t* test, p<0.05 = significant.

AKT

| Phospho | Total |

14 dpt

70 dpt

140 dpt

S T X S T X S T X S T S T S T S T S

MW:75

AKT
MW:65

S T X S T X S T X S T S T S T S T S

mTOR

Phospho

Total

14 dpt

T S T S T S T S

mTOR MW: 289

T S T S T S T S

MW:75

70 dpt

T T S S X X T T T S S S X T T X S

mTOR MW: 289

MW:250

T T S S X X T T T S S S X T T X S

140 dpt

S T X S T X S T X S T S T S T S

mTOR MW: 289

MW: 250

S T X S T X S T X S T S T S T S

4eBP1

| Phospho | Total |

14 dpt

T S T S T S T S T S

MW:25

4eBP1
MW: 20

T S T S T S T S T S

70 dpt

T T S S X X T T T S S S X T T S S

MW:25
4eBP1
MW: 20

T T S S X X T T T S S S X T T S S

140 dpt

S T X S T X S T X S T S T S T S T S

MW:25
4eBP1
MW: 20

S T X S T X S T X S T S T S T S T S

Alpha II Spectrin

14 dpt

S T S T S T S T S X S T T T

MW:250

Cleaved
MW: 145

70 dpt

T T S S X X T T T S S S X T T S S

MW:250

Cleaved
MW: 145

140 dpt

S T X S T X S T X S T S T S T S T S

MW:250

Cleaved
MW: 145

LC3B II

14 dpt

S X S T S X S T S T T T

LC3B II
MW:22

MW: 20

70 dpt

T T S S S S T T T S S X X T T X S

MW:15

LC3B II
MW: 14

140 dpt

T S T S T S T S T S T S T S T S

LC3B II
MW: 14

STAT3

| Phospho | Total |

14 dpt

T S T S T S T S T S

STAT3
MW: 79

MW: 75

70 dpt

T X S S X X T T T S S X X T T S S

STAT3
MW: 79
MW: 75

T X S S X X T T T S S X X T T S S

140 dpt

S T X S T X S T X S T S T S T S

STAT3
MW: 79
MW: 75

S T X S T X S T X S T S T S T S

Citrate Synthase

14 dpt

CS
MW: 52
MW: 50

S T S T S T S T S T S T

70 dpt

CS
MW: 52

MW: 50

140 dpt

CS
MW: 52