Supplementary information, Figure S7

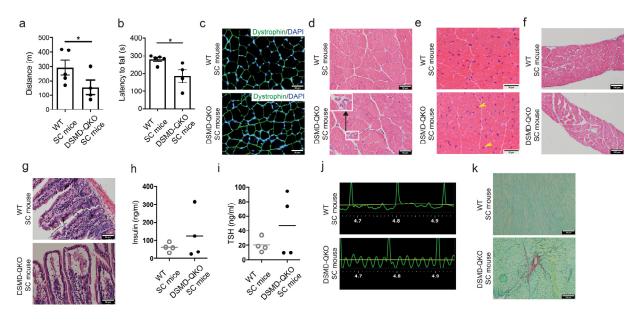


Fig. S7 DM1-associated phenotypes in adult DSMD-QKO SC mice. **a** Treadmill test of QKO SC mice and control SC mice (WT SC mice, n = 5; QKO SC mice, n = 4, 4-month old). Unpaired Student's t-test, *P < 0.05. **b** Rotarod analysis (WT SC mice, n = 5; QKO SC mice, n = 4, 4-month old). Unpaired Student's t-test, *P < 0.05. **c** Immunofluorescent staining showing equivalent dystrophin (green) levels in DSMD-QKO and WT SC mice. Scale bars, 50 μm. **d** H&E staining of TA muscle sections from DSMD-QKO and WT SC mice (4-6-month old). White box indicates nuclear clumps in DSMD-QKO muscle. Scale bars, 50 μm. **e** Representative images of myofibers with central nuclei from TA muscle in QKO SC mice (P30). Yellow arrows indicate the myofibers with central nuclei. Scale bars, 50 μm. **f** Histological analysis of diaphragm muscle showing loose construction and increased fat cell invasion in QKO SC mice (4-6-month old). Scale bars, 100 μm. **g** H&E staining showing disorganization of intestine villi in adult DSMD-QKO mice (4-6-month old). Scale bars, 50 μm. **h**, **i** Insulin and TSH levels determined by ELISA (n = 4 per group, 4-6-month old). **j** Electrocardiography experiments showing atrial flutter in DSMD-QKO SC mice (4-6-month old). **k** Representative images of

sirius red staining showing myocardial fibrosis in QKO SC mice (4-6-month old). Scale bars, $100\ \mu m.$