

Human Dys R16

MEISYVPSTYLTEITHVSQALLEVEQLLNAPDLCAKDFEDLFKQEESLKNIKDSLQQSSGRIDIHSHKTAALQSATPVER

Human Dys R17

VKLQEALSQLDFQWEKVNKMYKDRQGRFDRSVEKWRRFHDIKIFNQWLTEAEQFLRKTQIPENWEHAKYKWLKELQDGI

Linker

GQRQTVVRTLNATGEEIIQSSKTDASILQEKLGSNLRWQEVCKQLSDRKKRLEE GGSGLLLQRRRVTVRKADAGGLGIS

Mouse α 1-syntrophin PDZ

IKGGRENKMPILISKIFKGLAADQTEALFVGDAILSVNGEDLSSATHDEAVQALKKTGKEVVLEV KYMKEVSPYF ILEVSK

GFP

GEELFTGVVPILVELDGDVNGHKFSVSGEGEGDATYGKLT LKFICTTGKLPVPWPTLVTTLT YGVQCFSRYPDHMKQHDF

KSAMPEGYVQERTIFFKDDGNYKTRAEVKFE GDTLVNRIELKGIDFKEDGNILGHKLEYNYN SHNVYIMADKQKNGIKVNF

Pal

KIRHNIEDGSVQLADHYQNTPIGDGPVLLPDNH YLSTQSALS KDPNEKRDHMLLEFVTAAGITLGMDELYK KDGK KKKK

KSKTKCVIM

Supplementary Fig 1. The full amino acid sequence of dystrophin R16/17-syntrophin PDZ.GFP.Pal fusion protein. The subdomains of the fusion protein was annotated by different colors (R16, R17, linker, syntrophin-PDZ, GFP, Pal).