

Table S1. Oligonucleotide primers used to prepare the domain or point mutant constructs

Oligonucleotide	Sequence
Mouse muskelin domains	
Nterm-F1	5' GGTGCTGACAAGATGGCG 3'
CtermR1	5' CGTGACGGTACCTACAGTGTGATCAGGT 3'
Lis-R1	5' CTAGGGATCCTAACAGTGCAATCTGGT 3'
CTHL-R	5' ATGCATGGATCCTAGCTCTAGGAATAATCTG 3'
ΔC35-R	5' CTAGGGTACCATCCACATCTGAAAAGCTAGA 3'
Lis-F1	5' CTAGGAATTTCAGCAAGTACCGTGAACA 3'
CTHL-F	5' CTAGGAATTTCAGCAAGTACCGTGAACA 3'
Kelch-F	5' GGCTTAGAATTCCAGGAGTATAAGCCA 3'
C35-F1	5' GTACGAATTCTCAGATGTGGATCATACC 3'
LisHAA-F	5' CGCCTTGCCTAGCAGCCTCAGACAACAT 3'
LisHAA-R	5' ATGTTGCTGAAGGCTGCTAGGCAAGGCG 3'
T723A-F	5' TCCTGACAGCATGGCTCTCAAAGGCAAC 3'
T723A-R	5' GTTGCCTTAGGAGGAGCCATGCTGTCAGGA 3'
T723D-F	5' TCCTGACAGCATGGATCTCTCAAAGGCAAC 3'
T723D-R	5' GTTGCCTTAGGAGGATCCATGCTGTCAGGA 3'
Vinculin constructs	
Vin-F	5' CGCGTCGTTCCCTATTTC 3'
Vin-R	5' GTACGTTAACCTGATACCATGGGTCTT 3'
MKLis-F2	5' GTACGTTAACAGTACCGTGAACAGGAA 3'
MKLis-R2	5' CTAGTCTAGATTACAGTGCATCTGGTT 3'
RanBP domains	
SPRY-F	5' CTAGAACGTTGCTCTGGTGGCGGGCAGCA 3'
CRA-R	5' GCATGGTACCCCTAACATGGTAGCTTC 3'
Lis-F	5' GATCAAGCTTGATCGAGAAGGAGAATGGCAG 3'
Lis-R	5' GCATTAGAAACTCAGGTCTGGTCTGTAGA 3'
H-F	5' GATCAAGCTTGCTTCCATTAGAACATGACAAGA 3'
H-R	5' GATCGGATCCTAGCCTCCAAACATCGTACTTC 3'
u-R	5' GATCGGATCCTACTGACTCCTCCACACAAC 3'
CRA-F	5' GATCGAACATTCAAGTCAGGCCGCATAGAAAGA 3'

All oligonucleotides were synthesized by Sigma-Aldrich. Oligonucleotides used for mutagenesis were HPLC purified.