Supplemental **Table 1. Real-time PCR primers**

	Forward (F), reverse (R), and probe sequence (Taqman set)
Real-time PCR primers for KASH/SUN domain nuclear envelope proteins	
Mouse *Syne1* (**pKASH primers**)	F: CTGCTGCTTATTGGACTCACCT R: GAGGAGGACCGTTGGTATATCTG
Mouse *Syne2*	F: CTTCCTCTCAAGGGTGATCAGG R: AGCTGTAGTCATCTTCAGAGGCAG
Mouse *Syne3*	F: GCTGTTGCTCCTGCTCTTTCT R: ACCGAAGCATGAGCGCA
Mouse *Sun1*	F: CAGCATCCTAAGCACTCGGT R: TAGATGTCGGGCTGGATCAC
Mouse *Sun2*	F: TCTTTGGCTTCGATGAAGACC R: GGAAATAGAAGGTCTGGATGGG
Mouse *Sun3*	F: TCTGTCATTGAAGCTGGGACC R: TGCCATGCCAGTACAGTTTTG
Real-time PCR primers to differentiate expression level of mouse *Syne1* splicing isoforms	
AK036828/BC041779 (**P5 primers**)	F: CTGTTGGCTTGTCAGATGTAGTCA R: ACGTATTTCTGATTGCATTTTCTGT
AF281870/ NM_001079686 (**P3 primers**)	F: AACTCAAGAAGGATTATCAAGAGGAAA R: GCTCTCGTGGCTGGCTTTA
NM_022027/BC110428/AF281869/BC054456 + AK036828/BC041779 (**P4 primers**)	F: ACAGACAGACAACCAGCACCA R: AGAGAGTCTCTCCCCTTATCTAGGC
calponin domain 1 (NM_153399) (**P1 primers**)	F: CGTATTCATGCTGTGGCTAACA R: TTGACTAATTTAATCGGTGATCCTCT
Calponin domain 2 (NM_153399) (**p2 primers**)	F: CACACAGCAGGCAAGCAGA R: GGATAGCGTGGATGACTGAATG
Other nuclear envelope proteins	
Lmna A/C	probe: CTCCAAAAGCAGTTGGCAGCCAAGG
Lmna (A specific)	F: TCCGTCTCCTCTGGCTCTTAT R: AGTTGCCCAGGAGGTAGGAG
LmnB1	probe: GCTGCTGCTCAATTATGCCAAGAAG
Lamin B2	probe: GCCAGGAAGAGTGCCAAGAAGCGGG
Lamin B receptor	probe: AGGAGTACCTGGTGCGGTCCTCATC
LAP1	probe: GAGTCAAGAGAATCGGCTATCCATC
LAP2	probe: CCATTGTGGGAACAACCAGGAAGCT
Man1 (LEMD3)	probe: ATGTTGGAATAAGGTGTGTTGGTTA
Lemd2	probe: TCCAGGCAGGTAATTTTGAATGTGG
LEM3	F: CTACGCCCTTACTGTCTCCTGTG R: TGTTTGCTCGTTCTTTGTTTACTG
HP1b (Cbx1)	probe: CTCAAAAGTGCCTGCCACAGCTTCA
HP1a (Cbx5)	probe: AAAAAAAAGAGAGAGCAAAGCAATG
HP1gg (Cbx3)	F: AGCAAATCGAAGAAGAAGAGAGATG R: ACATTAACTCTCCGCTGCTGTC
Nurim	probe: CGGTCCCGATGCCCGCCACGGGTGG
Banf1	F: GAGCCTGGCCGGGATT R: AAACTGGCCAAGGACCACATA Probe: TGACGTCCTGAGCAAGAGGCTGGAG
Emerin	F: TCTCGTACTCGAAGATTTTCTTTTC R: GCCAGTACAACATCCCTCATG probe: AGAGCTTGCGAGTGGAACCCACAAT