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Supplemental Information

Conserved SUN-KASH Interfaces

Mediate LINC Complex-Dependent

Nuclear Movement and Positioning

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Table S1. Oligonucleotides used in this study. Related to STAR Methods.

oligonucleotides used for targeting Cas9 in <i>C. elegans</i>				
Plasmid or RNA	Target	DNA or RNA target	Strain	Reference
pSL715	<i>unc-83</i> 5' of TM domain	ctatgataattgtgtccac	UD478 UNC-83+A	[34]
pSL771	<i>unc-84</i> SUN domain	gttgtgtcaacaagatgct	UD497, 498 UNC-84(C953A)	This study
crRNA	<i>unc-83</i> KASH domain	ccgcauguaaccuaugugaa	UD568 UNC-83(Y-7A)	This study
crRNA	<i>anc-1</i> #1 KASH domain	cauugcgacgacgaguacug	UD558 ANC-1(CC-AA)	This study
crRNA	<i>anc-1</i> #2 KASH domain	caguacucgucgucgcaaug	UD584 ANC-1(F-7A)	This study
AP568-2 or crRNA	<i>dpy-10</i>	gcuaccuaggcaccacgag	co-CRISPR	[54]
oligonucleotides used CRISPR/CAS9 repair templates				
Repair target		ssODN Sequence	Strain	Reference
<i>unc-84</i> (yc35) UNC-84(C953A)		gttgactatgccctggagagctcaggtggagctgtgtgtcgac aagagcctcagagacgtacaaaagctacacaaggctggaa	UD497, 498	This study
<i>unc-83</i> (yc50) UNC-83(Y-7A)		ctattatcacgtttcggaaaaccatttggcccgcgatgcaccgc tgtcaatggaccaccaccggttaactgaatcatcagtattctga ttgaaatccc	UD568	This study
<i>anc-1</i> (yc48) ANC-1(CC-23-24AA)		gcactgctgttctacttatgggagccgctgtttggtccacactg tgatgatgaatatgctgctcaacttctcaataattcgctaaaagtt tgacccttcgctagaattc	UD558	This study
<i>anc-1</i> (yc56) ANC-1(F-7A)		gacgacaaaagatcccgttgagacgggtactcagaactgcttt gccactcagggtttgtttatatttttaataataactaatgtctctc atlttcaggcactgctgttctacttatgggagccgctgtttggttc cacattgtgatgatgaatactgttgccaacttctcaataattcgct aaaagtttgacccttcgctagaagccgtaaaccggcccgccac cattttaatcttaatttttattttcattactattcactattgttccattc	UD584	This study
<i>dpy-10</i> (cn64)		cacttgaacttcaatacggcaagatgagaatgactggaacc gtaccgcatgcggtgctatggtagcggagcttcatggttc agaccaacagcctat	co-CRISPR	[52]

siRNA sequences for tissue culture

siRNA target	siRNA Sequence	Reference
noncoding	uucuccgaacgugucacgutt	[23]
Nesprin-2G	ccaUCAUCCUGCACUUUCATT	[23]
SUN2	gggUCAUUCUGCAGCCAGATT	[23]

primers for making mutations in siRNA rescue constructs

Rescue construct	Sequence	Reference
EGFP-SUN2 ^{C577S}	gaggagccagtggtatcagcaccgctcctctgagacttatg- agaccaagacggcac	This study
EGFP-SUN2 ^{C577S}	gtgccgtcttggtctcataagtctcagaggagc- gggtgctgataaacactggctcctc	This study
EGFP-mini-Nesprin-2G ^{C-23S}	gactacagcagcaccaggc	This study
EGFP-mini-Nesprin-2G ^{C-23S}	gcctgggtgctgctgtagtc	This study
EGFP-mini-Nesprin-2G ^{Y-7A}	ccaccaacgggccacct	This study
EGFP-mini-Nesprin-2G ^{Y-7A}	cccgcagcatggggtaga	This study