

Table S1. Primer list for northern blot, nuclear run-on and PCR

Primers for Northern blot and run-on assays of LUC

LUC F TGACTGGCGACGTAATCCAC
 LUC R GTACACGTTTCGTACATCTC

Primers for RT-PCR and real-time PCR of LUC

F0 (realtime F) GGGCGCGTTATTTATCGGAG
 R0 (realtime R) CGGGAGGTAGATGAGATGTG
 F1 GCGGAGGAGTTGTGTTTGTG
 R1 CAATACGCAAACCGCCTCTC
 R2 GGAGGTTTCCCGATATTACCC
 R3 GGTCGGAGACGCTGTCAAC
 R4 GGAACCCTAATTCCCTTATC

Primers for nuclear run-on, RT-PCR and real-time PCR of MULE-F19G14,

F1 (run-on and RT-PCR) CGAACCTTGGTCCGTGAAGG
 R1 (run-on and RT-PCR) GTTCGTGGTTAAATCATTTCATG
 F2 GTGGGCAATCACCTACTAT
 R2 GAAACACTTTGACCTACCCAT
 realtime F GGCTGCAGATTGCTGCCAAC
 realtime R CAGATGATGAATGGGATGCG

Primers for RT-PCR, real-time PCR and run-on assays of ACTIN2

Actin2 F (run-on and RT-PCR) ATGGCTGAGGCTGATGATATTC
 Actin2 R (run-on and RT-PCR) GATTGGCACAGTGTGAGACAC
 Actin2-realtime-F GTGAAGGCTGGATTTGCAGG
 Actin2-realtime-R GCTCAATAGGATACTTCAAGG

Primers for RT-PCR of UBC21, OTS1, OTS2, ULP1A, ULP1B, ULP2like1, ULP2like2 and NRPE1

UBC21 F ATGCAGGCAT CAAGAGCGCG
 UBC21 R TCATCCTTTCTTAGGCATAG
 OTS1 Seq F GCTTGGTGATTTCAGGGATG
 OTS1 Seq R TCAATACCCTTCCACCACCG
 OTS1(C526S) Seq F CAAGAAGCTCAGTGACGCTG
 OTS1(C526S) Seq R TTACTCTGTCTGGTCACTGAC
 OTS1 F ATGACGAAGAGGAAGAAGGAAG
 OTS1 R TTACTCTGTCTGGTCACTGAC
 OTS2 F ATGAAGAGACAAAGAGCAATCG
 OTS2 R TTAATCTGTTTGGTTACCCTTG
 ULP1B F ATGGCTCTTGTACCCAAGAT
 ULP1B R TTAGTCAGCTCGCAGTCTCAG
 ULP1A F ATGAAAAACC AATCTAGGGT
 ULP1A R TCACTCGGCTTTCAGTTGCAG
 ULP2like1 F ATGACTCTCC GGTCAAGTCA
 ULP2like1 R TCAAGTTTTTGGCTTGGCCATC
 ULP2like2 F ATGAAGAAAA ACTTTGAAGT
 ULP2like2 R CTATTTCTCCATCTCCTCAGC
 NRPD1 F ATGGAAGACG ATTGTGAGGA

NRPD1 R

TCACGGGTTTTTCGGAGAAACC

Table S2. Primers Used for Plasmid Construction.

pCambia3300-OTS1genomic-BamHI-F

actGGATCCggtaattgcttaattgaccaac

pCambia3300-OTS1genomic-HindIII-R

actAAGCTTtctgtcaaattggattagtg

OTS1(C526S)-F

CGATTTTGATTCTGGTCCGTTTGTGCTCTTC

OTS1(C526S)-R

GAAGAGCACAAACGGACCAGAATCAAAATCG