

Table S2.The primers used for qRT-PCR, CRISPR/CAS9 genome editing and siRNA.

Amplicon	Sequence (5'-3')	Amplicon size
CRISPR/CAS9 Exon 2 Deletion 5'	F- ATCCACTGCCACATCTGGGTGTTTT R- ACCCAGATGTGGCAGTGGATCGGTG	
CRISPR/CAS9 Exon 2 Deletion 3'	F- GACCAACCATGCATACATCCGTTTT R- GGATGTATGCATGGTTGGTCCGGTG	
ladon ΔE2detection	F- ATCTTGGAAGGGGGACTGGAA R- TCCTGGTACATTGGAGGTGCTT	1141- 445
Nodal Exon2	N2F- CTGCTTAGAGCGGTTTCAGATG N2R- CGAGAGGTTGGAGTAGAGCATAA	223
Nodal Exon 1-2	F- CAGACATCATCCGCAGCCTA R- TGCCAGATCCTCTTGTTGGC	104
Nodal Exon 2-3	F- AGCAGTACAACGCCTATCGC R- AACAAAGTGAAGGGACTCGG	132
LADON 5'	L1F- CAAAGCTAGAGCCCTGTCCC L1R- AGGGCGAGTGTCTTAATCCT	130
LADON 5'	L2F- TGGTACATTGGAGGTGCTTG L2R- TGAGGGCGAGTGTCTTAATC	188
LADON 3'	L4F- AAGCAAACGTCCAGTTCTGCC L4R- TCACCCTCCTTCCTTCTTGGT	71
RPL13	F- GGAAGTACCAGGCAGTGACAGC R- CTTCTCGGCCTGTTCCGTAG	110
siRNA LADON	1) CAGCUAAUGAGGAGUCAAAUU 2) CAUUGGAGGUGCUUGAGU 3) ACAGGAACAUAGUCAUUUAUU	
probe set 220689_at	CTCAGTCAGTGTCAACAACCACCATA CAACCACCATAGCTCTTGCTGGAGG CTTGCTGGAGGCCTTACCTTATATA GATTTTCGAGTCCCTTTTAGAGATG AGTAAACCTGGATTGCCCCAACTGC AGCCCAGACTCCGAATTACTGTTCT GTCCCCCTTCCAAGATAAATTGCAC CTTGACAGCCAGAGGACAGTCAGT AAATGTGATGAGTTGCATCTCCCCC CTCCTCCCATACATGAAGTCTGGCC CCCAGCCACTCGAGAATCATTGAA	