

Table SI. RNA oligonucleotide sequences.

Oligonucleotide	Sequence (5' to 3')
miR-519d-3p mimics	F: CAAAGUGCCUCCCUUAGAGUG
	R: CUCUAAAGGGAGGCACUUUGUU
NC-mimics	F: UUCUCCGAACGUGUCACGUTT
	R: ACGUGACACGUUCGGAGAATT
miR-519d-3p inhibitor	CACUCUAAAGGGAGGCACUUUG
NC-inhibitor	CAGUACUUUUGUGUAGUACAA
siRNA1-FUT7	F: GCGCGACUCGGACAUCUUUTT
	R: AAAGAUGUCCGAGUCGCGCTT
siRNA2-FUT7	F: GCCUCAUCUGCGGGUGGAUTT
	R: AUCCACCCGCAGAUGAGGCTT
siRNA3-FUT7	F: GCGACUACAUUACGGAGAATT
	Re: UUCUCCGUAUUGUAGUCGCTT
NC-siRNA	F: UUCUCCGAACGUGUCACGUTT
	R: ACGUGACACGUUCGGAGAATT

F, forward; FUT, fucosyltransferase; miR, microRNA; NC, negative control; R, reverse; siRNA, small interfering RNA.

Table SII. Primer sequences used for reverse transcription-quantitative PCR.

Gene	Primer sequence (5' to 3')
HIF1 $\alpha$	F: TGCACAGGCCACATTCACGTA
	R: GTTCACAAATCAGCACCAAGCA
ITGAV	F: AGGAGAAGGTGCCTACGAAGCT
	R: GCACAGGAAAGTCTTGCTAAGGC
ITGB3	F: CATGGATTCCAGCAATGTCCTCC
	R: TTGAGGCAGGTGGCATTGAAGG
ITGB5	F: GCCTTTCTGTGAGTGCGACAAC
	R: CCGATGTAACCTGCATGGCACT
E-cadherin	F: GCCTCCTGAAAAGAGAGTGGAAG
	R: TGGCAGTGTCTCTCCAAATCCG
HBEGF	F: CATCGTGGGGCTTCTCATGT
	R: CCAGCCGATTCCTTGAGCA
FUT4	F: GGTCTATCGCCGCTACTTCC
	R: GGCCAAGTTCCGTATGCTCT
FUT7	F: GAATGAGAGCCGATACCAACGC
	R: TAGCGGTCACAGATGGCACAGA
ST3Gal 3	F: GCCTGCTGAATTAGCCACCAAG
	R: CCACTTGCGAAAGGAGTCATCC
ACTB	F: CACCATTGGCAATGAGCGGTTC
	R: AGGTCTTTGCGGATGTCCACGT

ACTB,  $\beta$ -actin; FUT, fucosyltransferase; HBEGF, heparin-binding EGF-like growth factor; ITGAV, integrin subunit  $\alpha$ V; ITGB, integrin subunit  $\beta$ .