

SUPPLEMENTARY TABLE I. Primers used for gene expression analysis (RT-qPCR), ChIP, and q3C.

Primer Name or Location	Sequence
qRT-PCR	
MUC6 F	GGCCACCGTCATCACCTATC
MUC6 R	GACAGCTGATTAGTTGTGGAAACAG
MUC2 F	GCTGCAACATTACCGTCTGCAAGT
MUC2 R	TGGTACTCAGCATTCCCGTGAACA
MUC5AC F	GTGGTGTGACCCGCAAGCC
MUC5AC R	GTCAGGGTATGCTCACGTTCCAGAG
MUC5B F	GGACCCTGGAGAACTGCACGGTGG
MUC5B R	GTGGAATAGTGGGAGCCGCCCC
18s rRNA F	CGGCTACCACATCCAAGGAA
18s rRNA R	GCTGGAATTACCGCGGCT
ChIP-qPCR	
944656.5 I F	GATTGGGTAAATGAGGGTATAG
944656.5 I R	CAACTGCTGCCTTAC
980804.5 II F	TCTCACTTCTGGGTTGTA
980804.5 II R	CTTGCTGCCTCTGGTT
1042164 III F	TCATCTGAGCACAGGGAGAGGCT
1042164 III R	TTTCACTCCGCATCCGCTGGTTAT
1051123 IV-1 F	TCTGTCCCAGAGCCTCCCATCAAT
1051123 IV-2 R	TGTGCCTGCATGTTGGCAAGT
1051359 IV-3 F	AACCTTCCATGGTGCCACAC
1051359 IV-3 R	AGCAAAGACTGTGGTCCCAGGTT
1060130 V F	GAAGATGGTACTGGAT
1060130 V R	GGTTCTCACGATATTG
1090328 VI F	GCGTTGTCAGTGGAGT
1090328 VI R	AGACGACTTGGGAGGA
1108936 VII F	CGTGTCTCAACTCGCTAT
1108936 VII R	TGGGCAGATGTTCCCTAAA
1160999 VIII F	TCTGAGTGCTGTCTTT
1160999 VIII R	ACACACAGAAATCTGC
1224307 IX F	TTTCCCAGCCCTCCTGGACTT
1224307 IX R	ACGCCTGAGAATGGAAGGTCGGTT
1248346 X F	GGACTACATCAAGGTCAGCAT
1248346 X R	TTCTCACCAGGGCACTG
1254625 XI F	AGGGTTCTGAGACATGAG
1254625 XI R	GCTGGGAATTTTCTCTTCA
1285844 XII F	AGAGAATGAGACCTAGCA
1285844 XII R	TCGTGATAGTGAGTGAATT
1315124 XIII F	GCTTACGGGAGTTCAC
1315124 XIII R	TCAGACCCTTGCTTGT
q3C	
<i>For MUC2 promoter bait</i>	
Forward primer	CTGCCTGTAACCTCAGAC

Probe	CTCCTACCTGGGACCTTGCC
Reverse primer_948899	CAGAGCTTATTCTTGTGACA
Reverse primer_955151	GCTTCTCACAAAGGTGTA
Reverse primer_963652	GGTCAACAGAGCAAGATC
Reverse primer_984664	TCAGCAGTTTGACAGACA
Reverse primer_1004725	ATGAATGAATGAATGAACGACAG
Reverse primer_1025813	CCTTCAAGATCCTGACAGA
Reverse primer_1030994**	AGGCAAGTTCCTGGAA
Reverse primer_1038494	GGTCAGACAAGCACAA
Reverse primer_1062047	CCTGAGAAGGTCTACCAA
Reverse primer_1067225*	ACTCGATTATGCACAGATG
Reverse primer_1085840	GCTTGTCTTCCA ACTTCA
Reverse primer_1091421	GTCACTTACTCGGAGTTG
Reverse primer_1110726	CTGTGTTGTCCGTGTTTC
Reverse primer_1130235	GTGGATCACTTGAGTTCAG
Reverse primer_1138963	CCTGCTCTGTGATGGTATA
Reverse primer_1144403	CCTCACATCTCCTGAACC
Reverse primer_1151947	GAGCAGCTGGAGATACTG
Reverse primer_1218084	CCTTCCACTCACCTTAC
Reverse primer_1220196	CAGTGTGTGTTGCAGATC
Reverse primer_1233467	TCTCCCTTTGTTCTTTGTG
Reverse primer_1242231	TCTCCCTTTGTTCTTTGTG
Reverse primer_1247570	CGTCTGTTTTGCTCCAAG
Reverse primer_1252603	CACGATGAAGAAGCTCGA
<i>For MUC6 promoter bait</i>	
Forward primer	TGCTGAGAGGTTGGATG
Probe	CCCCTCATCGTCCCCACCTC
Reverse primer_1073247	GACAGAGATTTTCCAGGC
Additional reverse primers used with the <i>MUC6</i> promoter bait were the same as those used for the <i>MUC2</i> promoter bait (in the range of 948899~1144403).	

Note: Normalizing fragment for the *MUC2* (*) and for the *MUC6* (**) promoter baits.