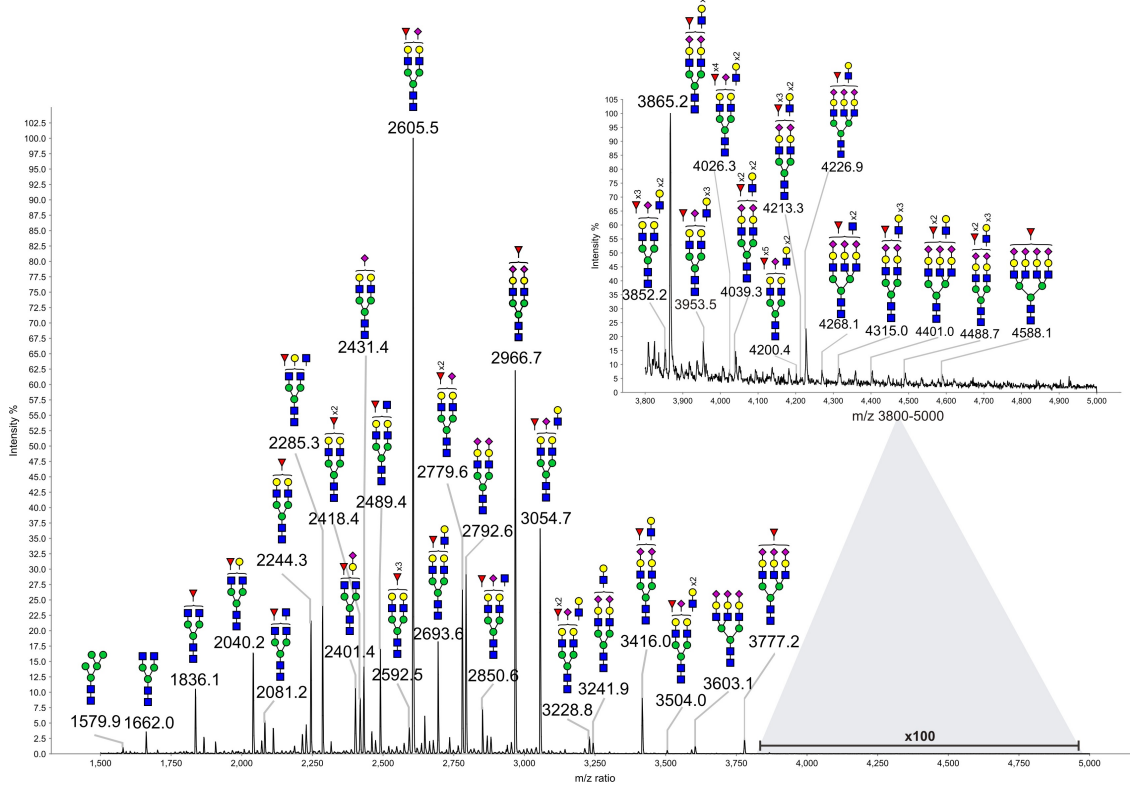
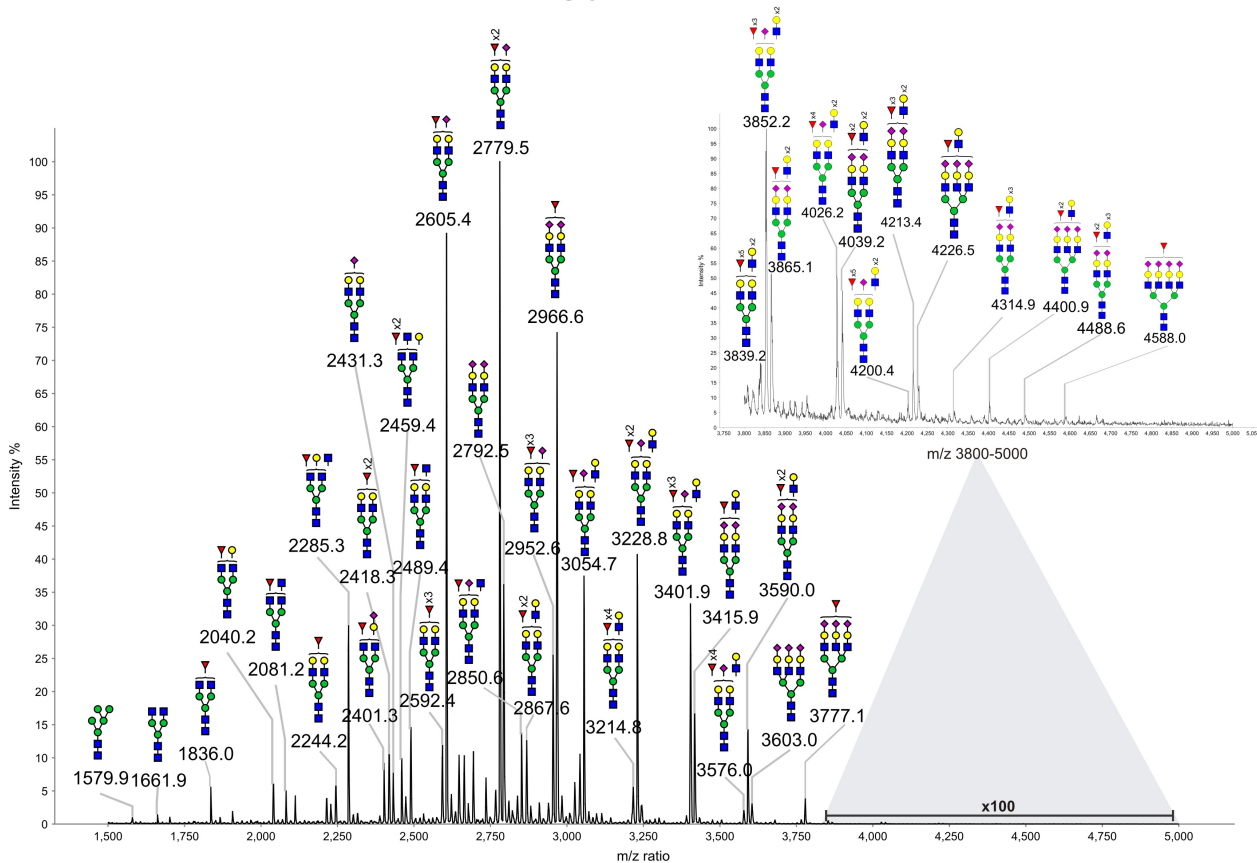


SF1: Serum levels of E-cadherin are highly correlated with lung levels of E-cadherin

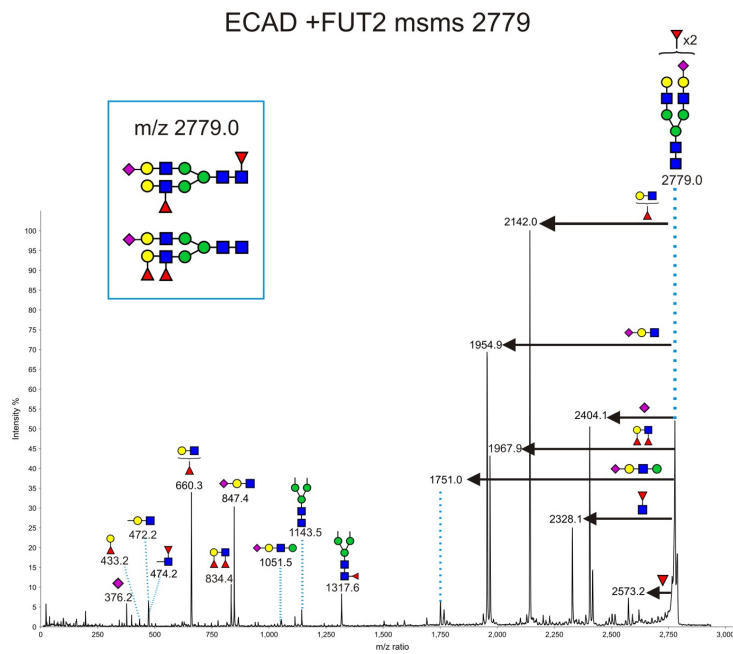
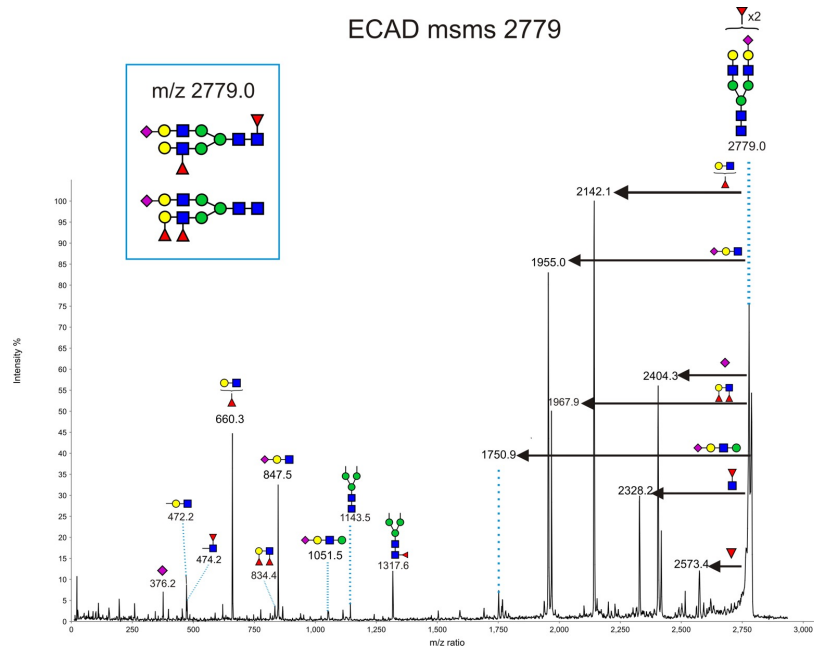
ECAD N-glycans m/z 1500-5000

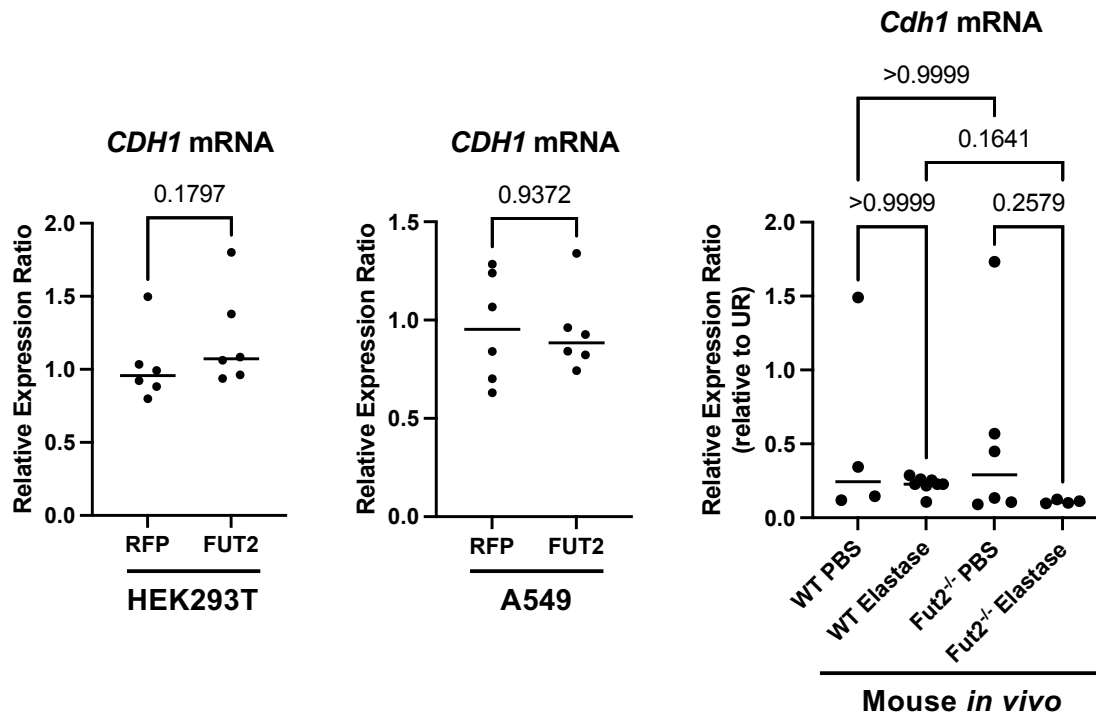


ECAD FUT2 N-glycans m/z 1500-5000



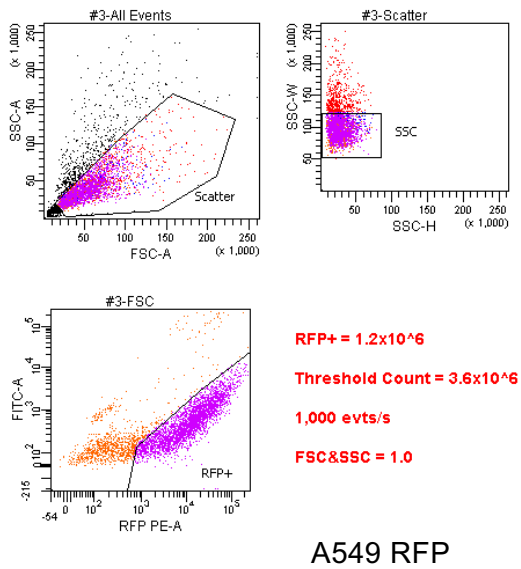
SF2: Glycan profiles of E-cadherin change with FUT2 overexpression



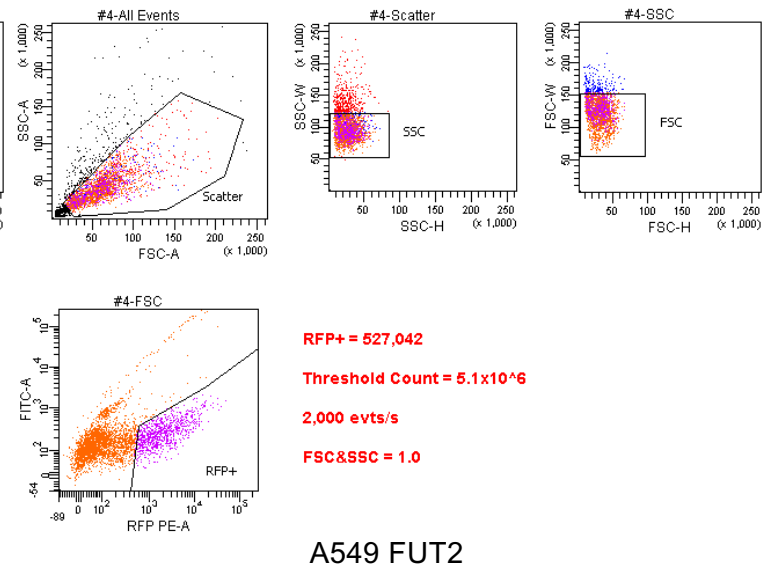


SF3: *CDH1* transcript levels are not dependent on *FUT2* expression.

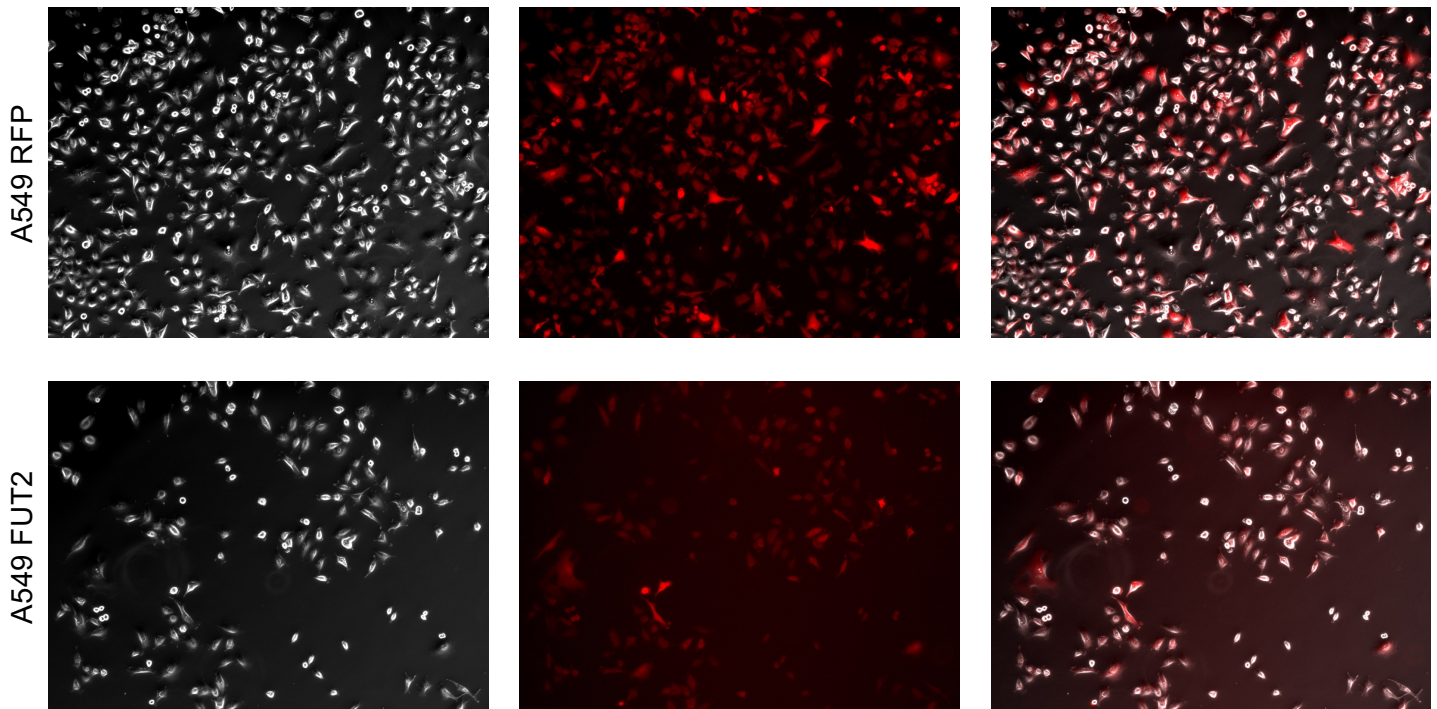
A



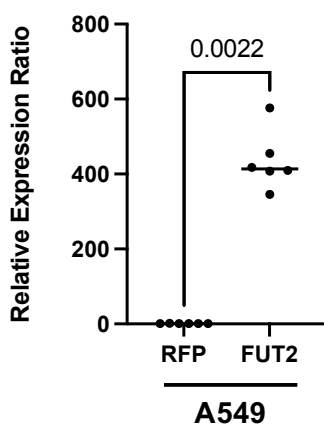
B



C

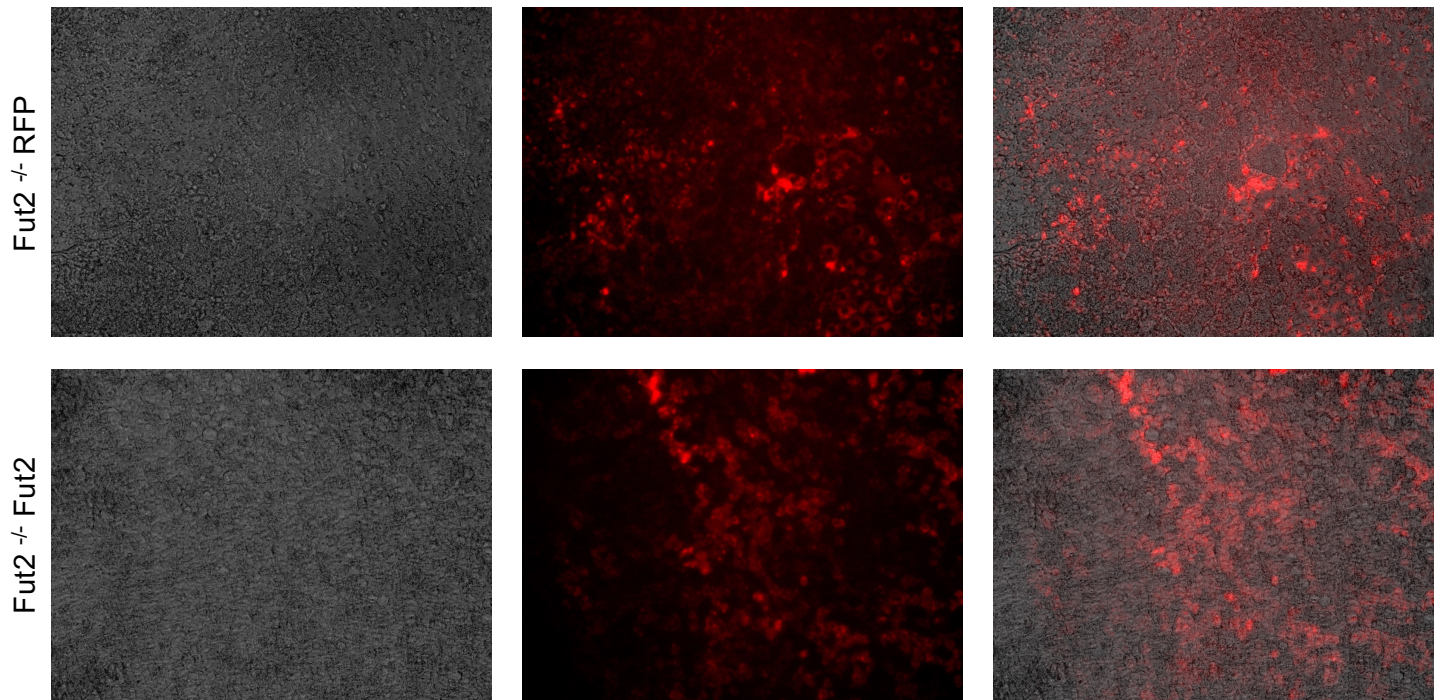


D



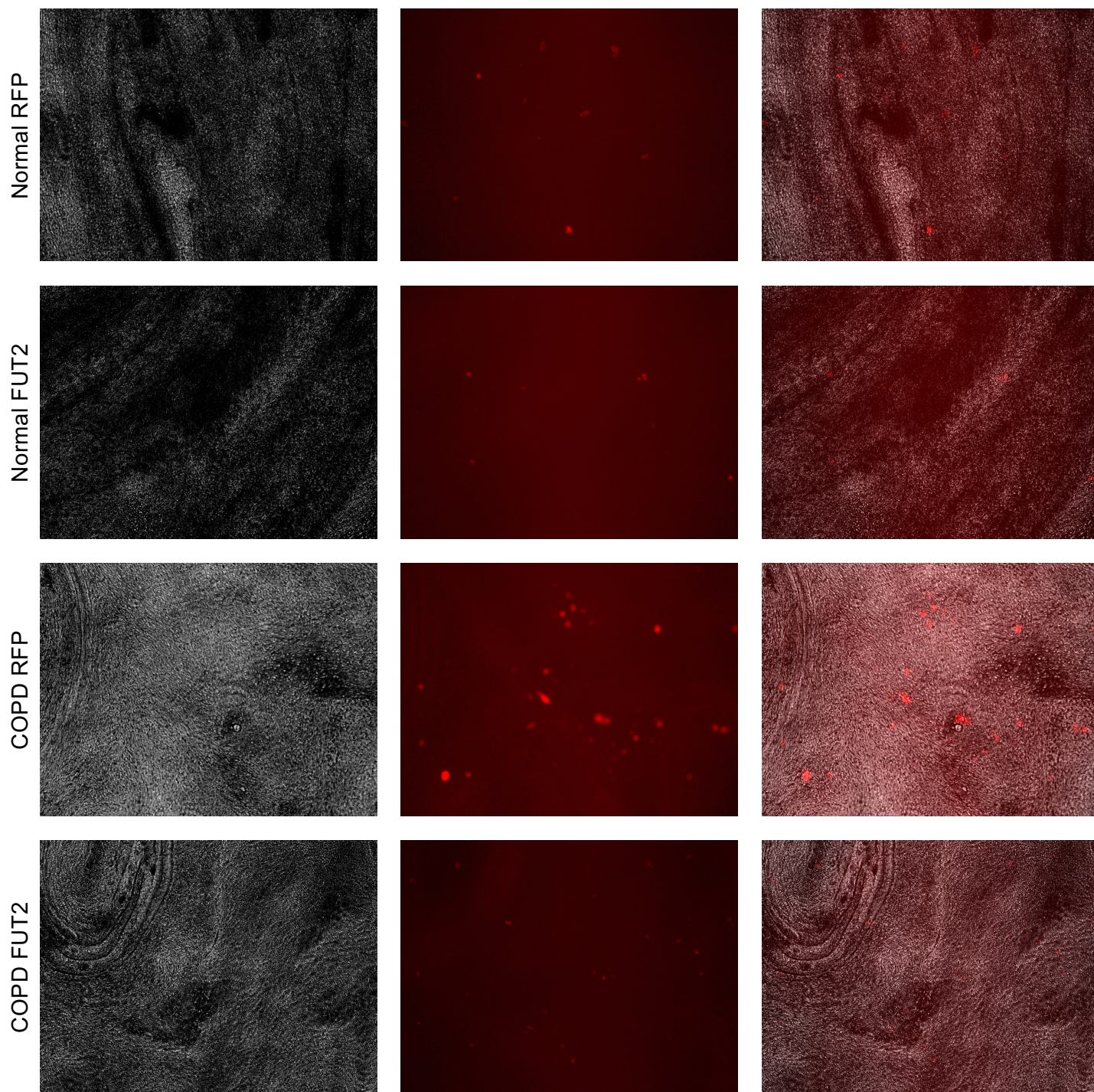
SF4: Transduction efficiency of RFP, FUT2, Fut2, shCTRL, shCDH1.

E

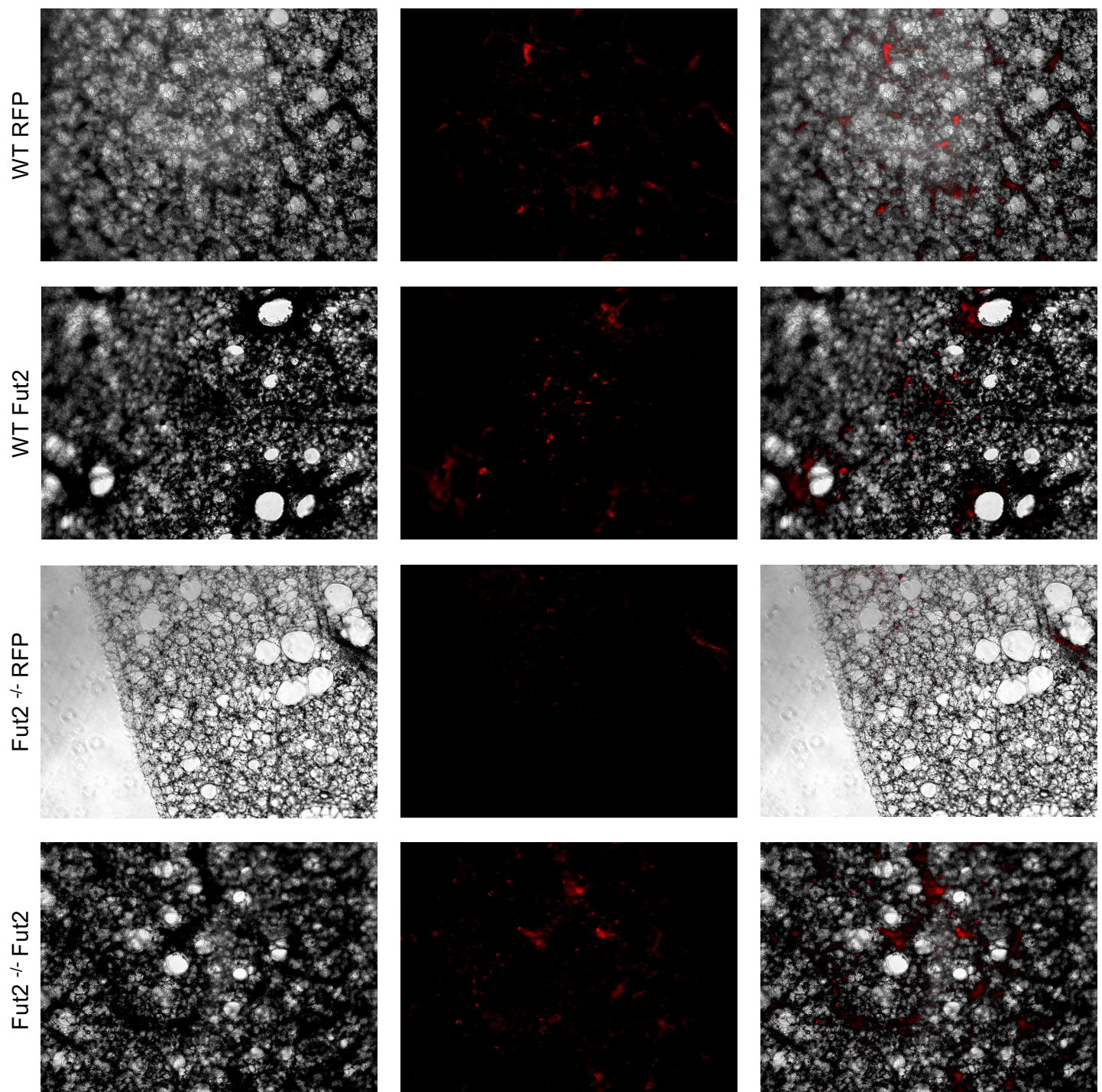


SF4: Transduction efficiency of RFP, FUT2, Fut2, shCTRL, shCDH1.

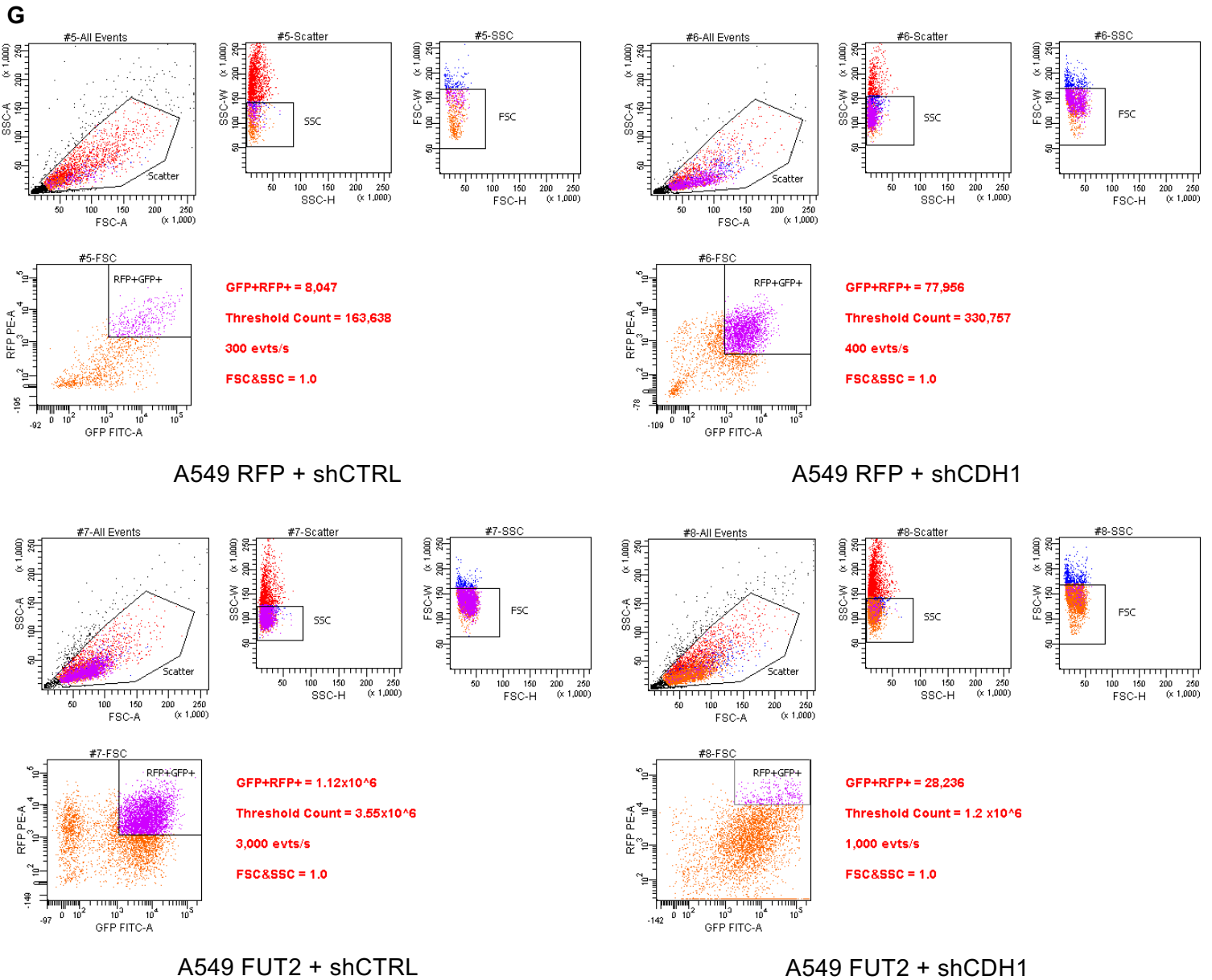
F



F

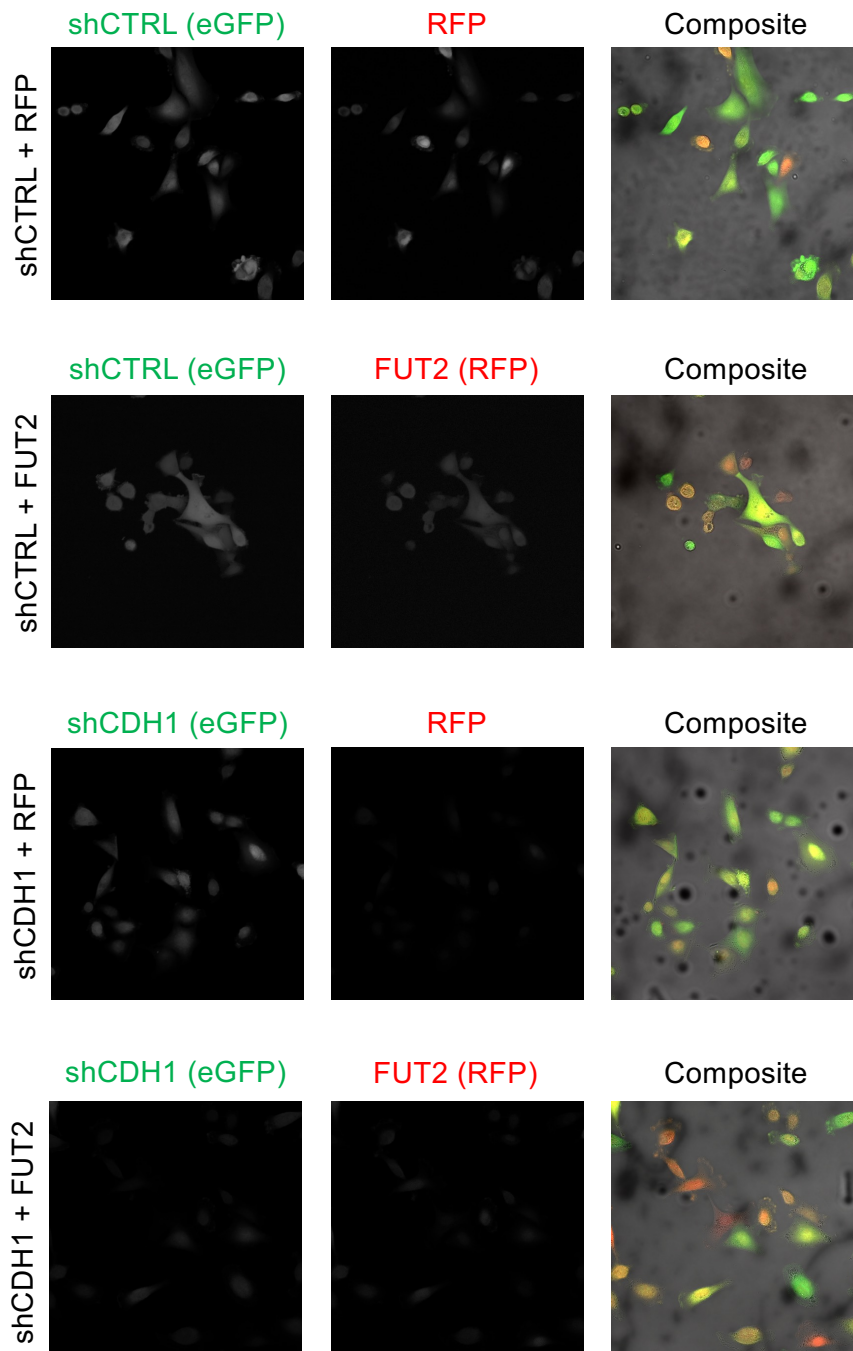


SF4: Transduction efficiency of RFP, FUT2, Fut2, shCTRL, shCDH1.

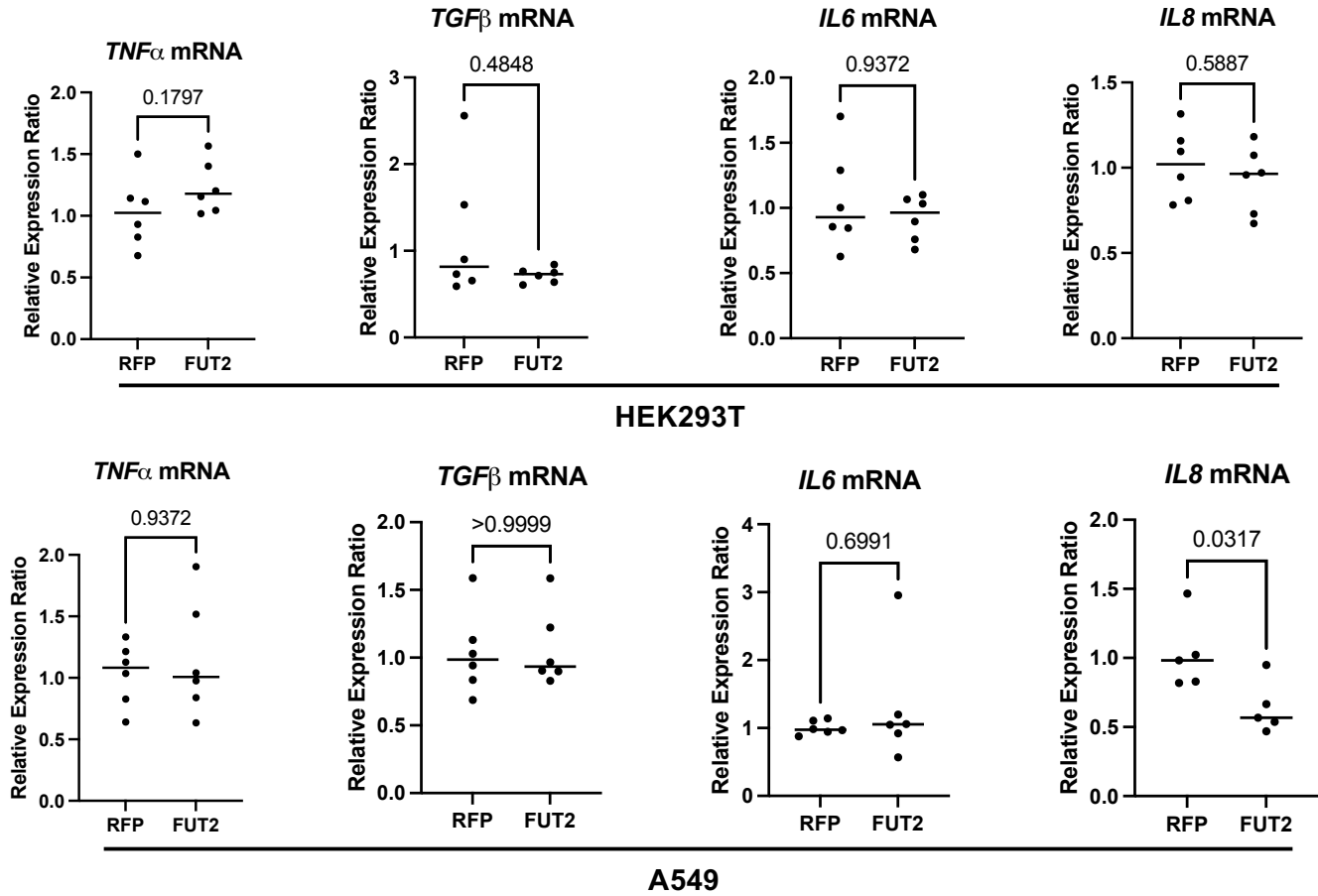


SF4: Transduction efficiency of RFP, FUT2, Fut2, shCTRL, shCDH1.

H



SF4: Transduction efficiency of RFP, FUT2, Fut2, shCTRL, shCDH1.



SF4: Markers of key inflammatory genes are not changed with varying FUT2 expression

Supplementary Table 1: Cohesion measurements of E-cadherin with and without FUT2 dependent fucosylation		
E-cadherin without FUT2 fucosylation		
Run	Adhesive Force (nN)	n
1	63.759 ± 2.8563	96
2	63.428 ± 3.5936	97
3	63.0181 ± 2.9007	101
4	63.4037 ± 2.9181	102
5	63.6881 ± 2.3771	101
E-cadherin with FUT2 fucosylation		
Run	Adhesive Force (nN)	n
1	79.5199 ± 2.5149	105
2	80.2063 ± 3.5990	121
3	80.2640 ± 2.6532	117
4	79.6411 ± 3.0411	116
5	79.3105 ± 2.0907	107

Supplementary Table 2: Quantitative polymerase chain reaction primers used to determine abundance of mRNA transcripts.		
Gene	Direction	Sequence (5' – 3')
Human		
Human <i>CDH1</i>	Forward	GCCTCCTGAAAAGAGAGTGGAAAG
	Reverse	TGGCAGTGTCTCTCCAAATCCG
Human <i>KRT5</i>	Forward	TTGGACCAGTCAACATCTCTGT
	Reverse	CTGCTACCTCCGGCAAGAC
Human <i>FOXJ1</i>	Forward	AGATCCCACCTGGCAGAATTCAA
	Reverse	CCGAGGCACCTTTGATGAAGC
Human <i>SCGB1A1</i>	Forward	TGAAACTCGCTGTCACCCTC
	Reverse	CAGATCTCTGCAGAAGCGGA
Human <i>MUC5AC</i>	Forward	GAACTGCCAGTCTGCCTTT
	Reverse	AGCGTGTCCATTGTAGGTG
Human <i>CLDN4</i>	Forward	ATCGGCAGCAACATTGTCCAC
	Reverse	GCGAGTCGTACACCTTGCAC
Human <i>AGER</i>	Forward	CACCTTCTCCTGTAGCTTCAGC
	Reverse	AGGAGTACTGCTCCAGTCTCT
Human <i>SFTPC</i>	Forward	GTCCTCATCGTCTGTTGATTG
	Reverse	AGAAGGTGGCAGTGGTAACCAG
Human <i>FUT2</i>	Forward	CTACCACCTGAACGACTGGATG
	Reverse	AGGAGTACTCCTGGAGGATCT
Human <i>GAPDH</i>	Forward	GTCTCCTCTGACTTCAACAGCG
	Reverse	ACCACCTGTTGCTGTAGCCAA
Human <i>TNFα</i>	Forward	TGGGATCATTGCCTGTGAG
	Reverse	GGTGTCTGAAGGAGGGGTA
Human <i>TGFβ</i>	Forward	GTGGAAACCCACAACGAAATC
	Reverse	GAGAGCAACACGGGTTCCAGG
Human <i>IL6</i>	Forward	CCACCGGGAACGAAAGAGAA
	Reverse	CTTGTACATGTTTGTGGAGAAGGA
Human <i>IL8</i>	Forward	TGGACCCCAAGGAAAAGTGG
	Reverse	ATTTGCTTGAAGTTTCACTGGCA
Mouse		
Mouse <i>Cdh1</i>	Forward	GGTCATCAGTGTGCTCACCTCT
	Reverse	GCTGTTGTGCTCAAGCCTTCAC
Mouse <i>Krt5</i>	Forward	AGATGTTCTTTGATCGGGAGC
	Reverse	TGTCCATGGAAGGACCACAG
Mouse <i>Foxj1</i>	Forward	TCGAGCTGGGACAGAGAA
	Reverse	CGAATGTGAGGCCTGGCT
Mouse <i>Scgb1a1</i>	Forward	TCCCTGAAGCCTTTCAACCC
	Reverse	TTGTTAGGATTTTCTCCGTGAGC
Mouse <i>Muc5ac</i>	Forward	TTACTCTACTGACTGCACCAACACA
	Reverse	CCCATGTAAGTGTACTGCC
Mouse <i>Cldn4</i>	Forward	CGAGCCCTTATGGTCATCAGCA
	Reverse	ATGCTTGCCACGATGAACACGG
Mouse <i>Ager</i>	Forward	GCCACTGGAATTGTCGATGAGG
	Reverse	GCTGTGAGTTTCAAGGCAGGAT
Mouse <i>Sftpc</i>	Forward	GTCCTCGTTGTCGTGGTATTG
	Reverse	AAGGTAGCGATGGTGTCTGCTC
Mouse <i>Fut2</i>	Forward	AGGCGGTTCAAATGTCTCACC
	Reverse	GCATATTCGCCATCTGGTTCC
Mouse <i>Gapdh</i>	Forward	CATCACTGCCACCCAGAAGACTG
	Reverse	ATGCCAGTGAGCTTCCCCTTCAG

Supplementary Table 3: Primers used to amplify genes with polymerase chain reaction from genomic cDNA.		
Gene	Direction	Sequence (5' – 3')
Human <i>FUT2</i>	Forward	GTACGATATCATGTACCCATACGATGTTCCAGATTACGCTCTGGTCGTTCA GATGCC
	Reverse	GTACGATATCTTAGTGCTTGAGTAAGGGGGACAGGTCTGC
Mouse <i>Fut2</i>	Forward	TATAGATATCATGTACCCATACGATGTTCCAGATTACGCTGCGAGTGCCC AGGTA
	Reverse	AAAAGATATCTTAGTGCTTAAAGGAGTG