

SUPPLEMENTAL FIGURES

Figure S1. Representative mass spectrometry spectra in W1282WT and W1282X samples.

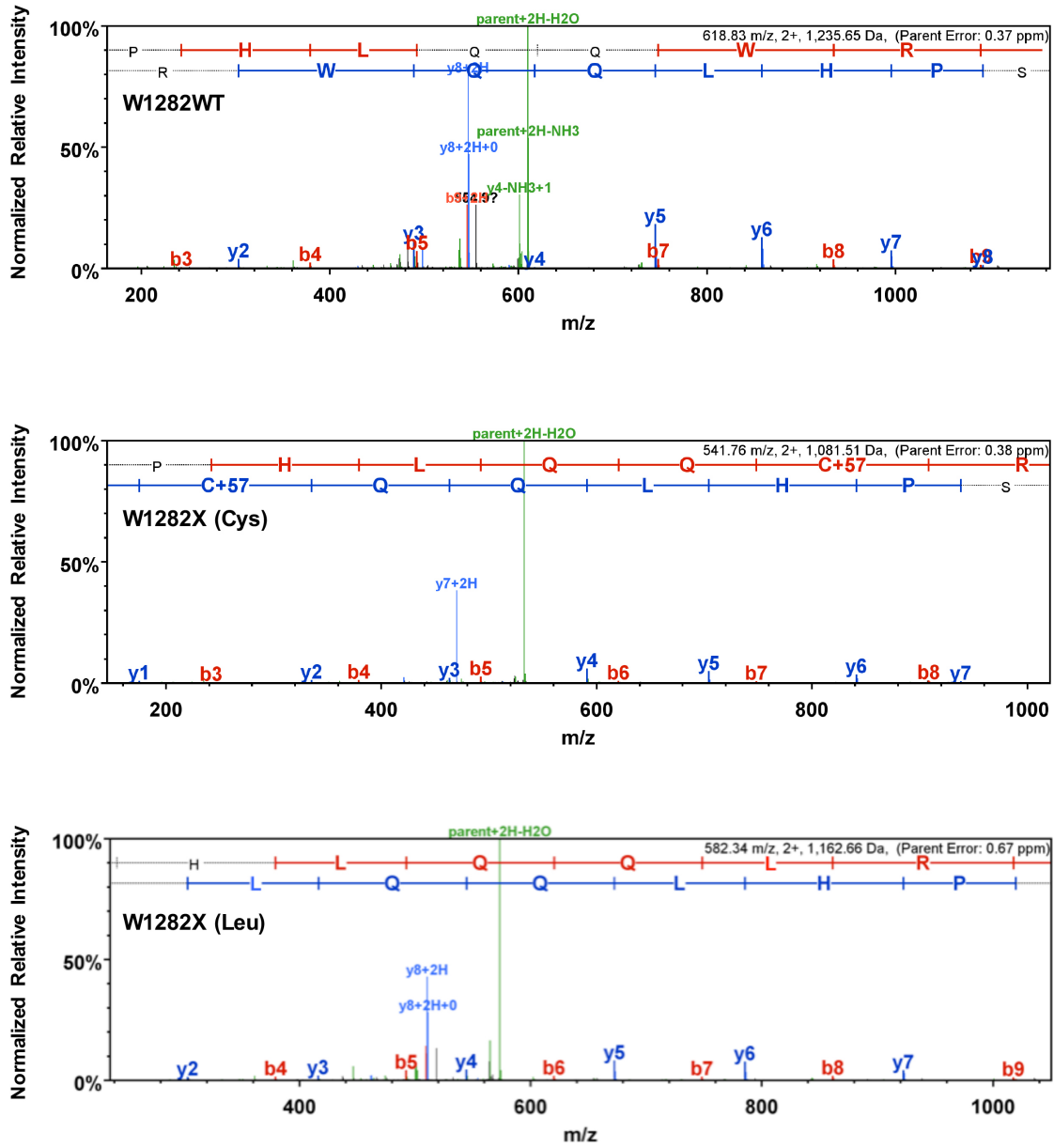


Figure S2. Representative mass spectrometry spectra in QXQ samples.

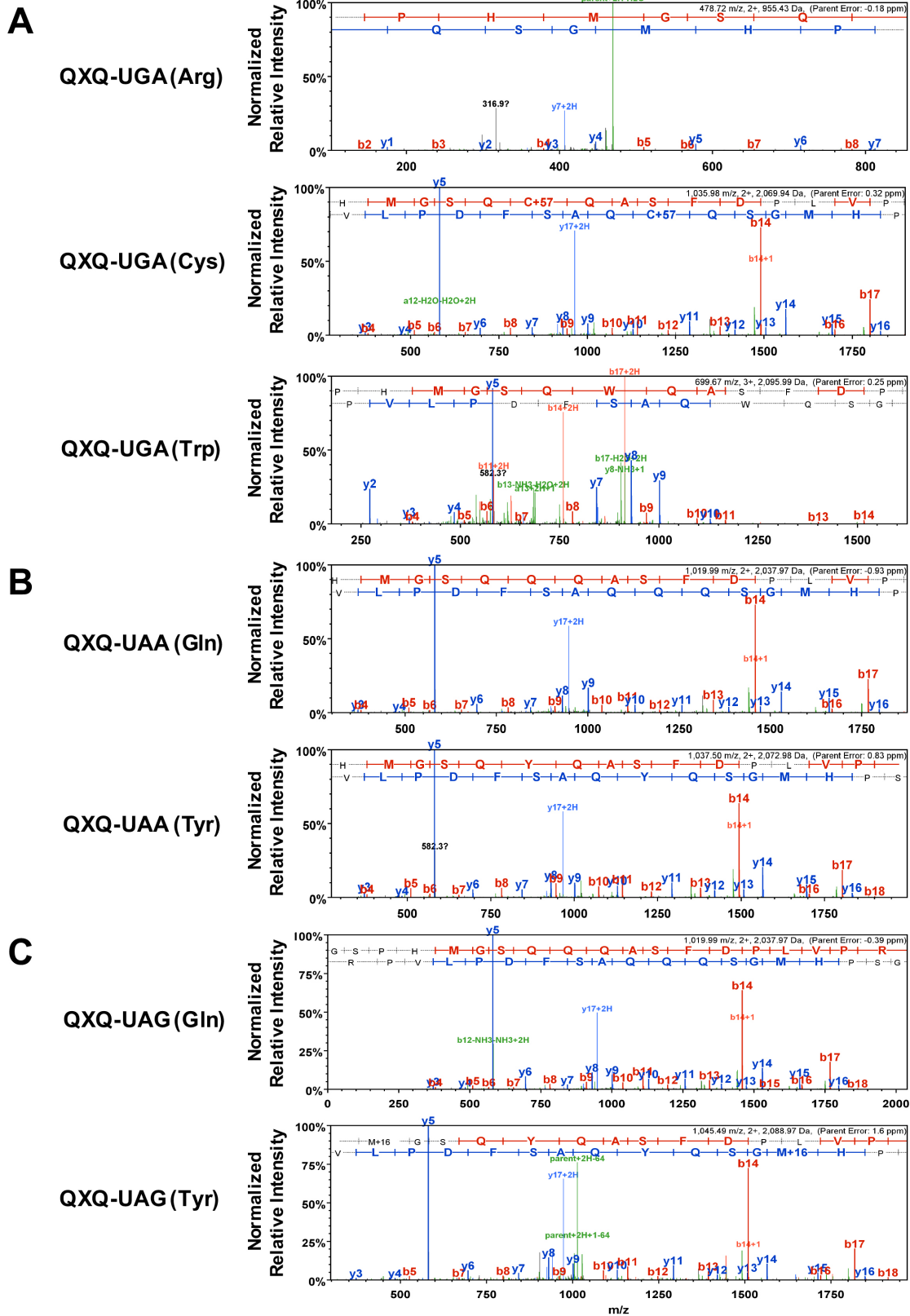
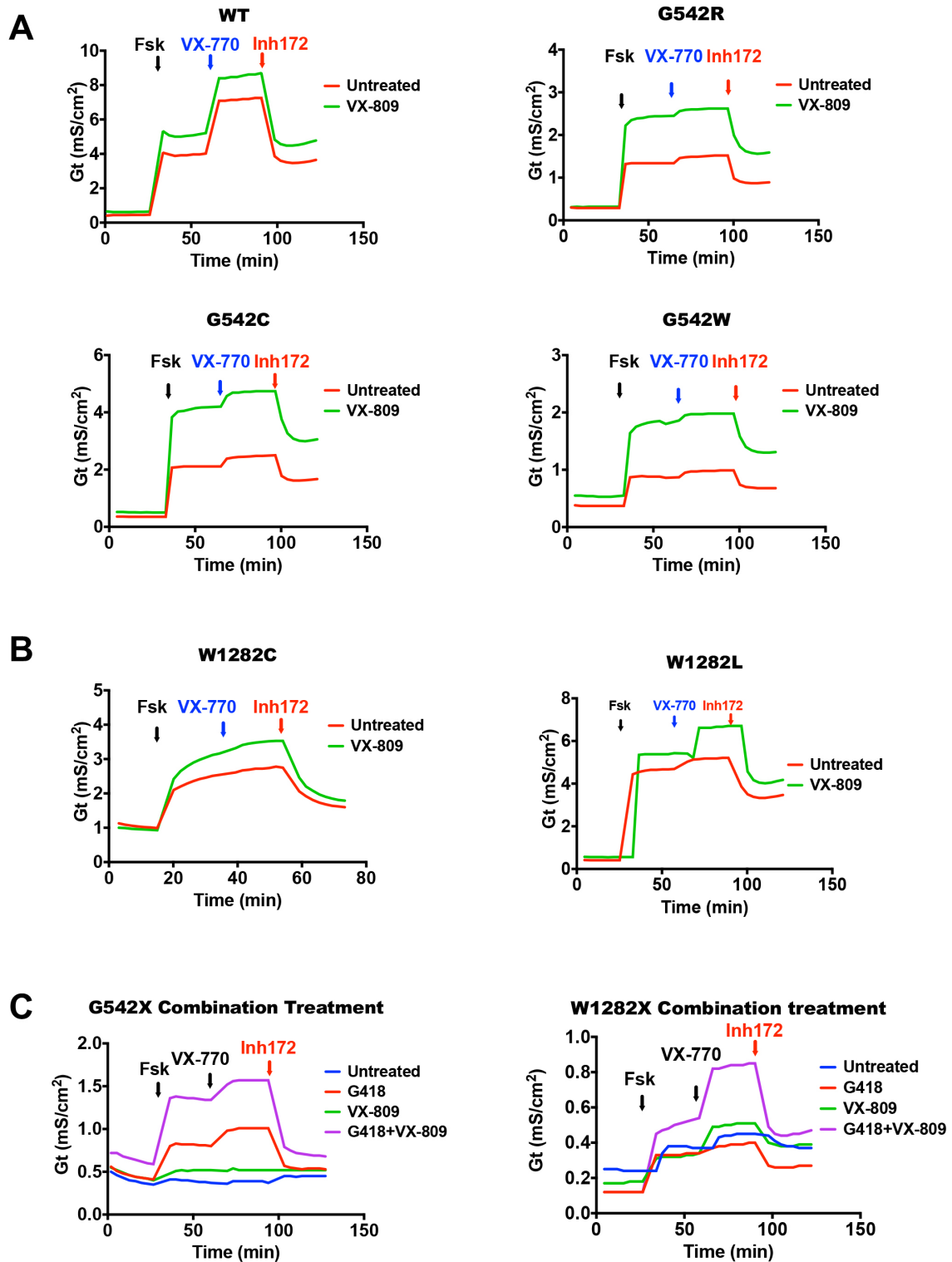


Figure S3. Representative tracings of conductance measurements in FRT monolayers expressing CFTR WT, W1282X, W1282L and W1282C. N=6 per variant.



SUPPLEMENTAL TABLES

Supplemental Table 1: Oligonucleotides used to make cassettes in reporters.

Forward	5'-TGCATAATGCTAGCGCCACCATGGAGAGCGACGAGAGC-3'
G542WT	1 st Reverse: 5'- AACCAGTCCACCTTCT CCA AGA ACTATGTGTGGGGATCC ACG CGG AACCAGGCCGCTGCTGCCTTCTTCAC -3' 2 nd Reverse: 5'- TGGTGGTGGTGGCCGCTGCTGCCGGCGTAGTCGGGCACGTC GTAGGGGTAGGATCCACGCGGAACCAGTCCACCTTCTC -3'
G542X	1 st Reverse: 5'- AAC CAG TCC ACC TTC TCA AAG AAC TAT GTG TGG GGA TCC ACG CGG AAC CAG GCC GCT GCT GCC TTC TTC AC -3' 2 nd Reverse: same as G542WT 2 nd Reverse.
W1282WT	1 st Reverse: 5'- AACCAGGGCTTTCCT CC ACTGTTGCAAGTGTGGGGATCCACG CGGAACCAGGCCGCTGCTGCCTTCTTCAC -3' 2 nd Reverse: 5'- TGGTGGTGGTGGCCGCTGCTGCCGGCGTAGTCGGGCACGTC GTAGGGGTAGGATCCACGCGGAACCAGGGCTTTCCTCC -3'
W1282X	1 st Reverse: 5'- AACCAGGGCTTTCCTT CA CTGTTGCAAGTGTGGGGATCCACG CGGAACCAGGCCGCTGCTGCCTTCTTCAC -3' 2 nd Reverse: 5'- TGGTGGTGGTGGCCGCTGCTGCCGGCGTAGTCGGGCACGTC GTAGGGGTAGGATCCACGCGGAACCAGGGCTTTCCTTC -3'
QXQ UGA	1 st Reverse: 5'- AACCAGGGGATCGAAGCTTGCTT GTC ATTGAGATCCCATGTGT GGGGATCCACGCGGAACCAGGCCGCTGCTGCCTTCTTCAC -3' 2 nd Reverse: 5'- TGGTGGTGGTGGCCGCTGCTGCCGGCGTAGTCGGGCACGTC GTAGGGGTAGGATCCACGCGGAACCAGGGGATCGAAGCTTG C -3'
QXQ UAA	5'- G GGATCTCAAT AACA AGCAAGCTTCG-3' and 5'- CGAAGCTTGCTT GTT ATTGAGATCCC -3'
QXQ UAG	5'- G GGATCTCAAT AGCA AGCAAGC TCG -3' and 5'- CGAAGCTTGCTT GCT ATTGAGATCCC -3'
QWQ	5'- G GGATCTCAAT GGCA AGCAAGCTTCG -3' and 5'- CGAAGCTTGCTT GCC ATTGAGATCCC -3'
3 rd Reverse	5'-CTACTCACCTCGAGTCACTATTA GTGGTGGTGGTGGTGGTGGCCGC-3'

Supplemental Table 2: Oligonucleotides used to make CFTR constructs.

G542R (GGA -> CGA)	5'- GAC AAT ATA GTT CTT CGA GAA GGT GGA ATC ACA CTG AGT GG -3' and 5'- CCACTCAGTGTGATTCCACCTTCT CGA AAGAAGCTATATTGTC -3'
G542C (GGA -> TGC)	5'- GAC AAT ATA GTT CTT TGC GAA GGT GGA ATC ACA CTG AGT GG -3' and 5'- CCACTCAGTGTGATTCCACCTT TGC AAGAAGCTATATTGTC -3'
G542W (GGA -> TGG)	5'- GAC AAT ATA GTT CTT TGG GAA GGT GGA ATC ACA CTG AGT GG -3' and 5'- CCACTCAGTGTGATTCCACCTT TGG AAGAAGCTATATTGTC -3'
W1282C (TGG -> TGC)	5'- CAATAACTTTGCAACAGT TGC AGGAAAGCCTTTGGAGTGATAC - 3' and 5'- GTATCACTCCAAGGCTTTCCT TGC ACTGTTGCAAAGTTATTG - 3'
W1282L (TGG -> TTA)	5'- CAATAACTTTGCAACAGT TTA AGGAAAGCCTTTGGAGTGATAC - 3' and 5'- GTATCACTCCAAGGCTTTCCT TTA ACTGTTGCAAAGTTATTG -3'