

## SUPPLEMENTARY MATERIALS

### shRNA sequences

shNTC:

Sense: 5'-CCGGAAGCTGACCCTGAAGTTCATTTCAAGAGAATGAACTTCAGGGTCAGCTTTTTTTTT-3'

Anti-sense: 5'-AATTAATAAAGCTGACCCTGAGTTTCTCTTGAATGAACTTCAGGGTCAGCTT-3'

shCFHR3#1:

Sense: 5'-CCGGGGTCCTCTAGATGCAGTTAACTTCAAGAGAGTTAACTGCATCTAGAGGACCTTTTTT-3'

Anti-sense: 5'-AATTAATAAAGGTCCTCTAGATGCAGTTAACTCTCTTGAAGTTAACTGCATCTAGAGGACC-3'

shCFHR3#2:

Sense: 5'-CCGGGCAGTTAACCAAATAGGGTCATCAAGAGATGACCCTATTTGGTTAACTGCTTTTTT-3'

Anti-sense: 5'-AATTAATAAAGCAGTTAACCAAATAGGGTCATCTCTTGAATGACCCTATTTGGTTAATGTC-3'

### Vector construction primers

pLenti-CMV-blast-CFHR3:

Forward: 5'-GGGGATCCGCCACCatgtgttactaatcaatg tcat-3'

Reverse: 5'-GGctcgagttattcgcatctgggtattccac-3'

pGL3-Basic-CFHR3-3' UTR (WT)-reporter:

Forward: 5'-ggtaccGGCAGCATTGTTACCCTAAATG-3'

Reverse: 5'-aagcttTAATTTATAAAGGAAAGAGG-3'

pGL3-Basic-CFHR3-3' UTR (MUT1)-reporter:

Forward: 5'-TCTACTTTATTTCAATGTTTTAATATATAATAGTTTCAA-3'

Reverse: 5'-TTGAAACTATTATATATTTAAACATTGAAATAAAGTAGA-3'

pGL3-Basic-CFHR3-3' UTR (MUT2)-reporter:

Forward: 5'-GGGAAGTAATAATACGTATTTTAAATGATATTTAAATTGTA-3'

Reverse: 5'-TACAATTTTAAATATCATTAAAATACGTATTACTTCCC-3'

### miR-590-3p detected primers:

Forward: 5'-AAGGAGCUUACAAUCUAGCUGGG-3'

Reverse: 5'-CAGCUAGAUUGUAAGCUCCUUUU-3'