

Supplemental figure S4: Annotated sequence alignment of wild type and G444C BLOC1S1 expression constructs.

Annotation key:

BLOC1S1 mRNA sequence, Translation start site in bold, numbering from start site
 Polyadenylation signal
 Guanine or Cytosine 444
 qPCR tag
 Restriction sites for cloning

WT_BLOC1S1_pRRLsin	TATCGATCACGAGACTAGCCTCGACGTATACCCACGTG GTTTAAACACAC	
G444C_BLOC1S1_pRRLsin	TATCGATCACGAGACTAGCCTCGACGTATACCCACGTG GTTTAAACACAC	

WT_BLOC1S1_pRRLsin	AGCGGTCACGTGACATGGCCCCGGGGAGCCGAGGTGAGCGTTCCAGCTTC	36
G444C_BLOC1S1_pRRLsin	AGCGGTCACGTGACATGGCCCCGGGGAGCCGAGGTGAGCGTTCCAGCTTC	36

WT_BLOC1S1_pRRLsin	CGGAGCCGGAGGGGGCCCCGGGTACCCAGCCCCAGCCCCAGCTGACCAAT	86
G444C_BLOC1S1_pRRLsin	CGGAGCCGGAGGGGGCCCCGGGTACCCAGCCCCAGCCCCAGCTGACCAAT	86

WT_BLOC1S1_pRRLsin	GCTGTCCCCTCCTAAAAGAACACCAGGCCAAGCAGAATGAACGCAAGG	136
G444C_BLOC1S1_pRRLsin	GCTGTCCCCTCCTAAAAGAACACCAGGCCAAGCAGAATGAACGCAAGG	136

WT_BLOC1S1_pRRLsin	AGCTGCAGGAAAAGAGGAGGCGAGAGGCTATCACTGCAGCGACCTGCCTG	186
G444C_BLOC1S1_pRRLsin	AGCTGCAGGAAAAGAGGAGGCGAGAGGCTATCACTGCAGCGACCTGCCTG	186

WT_BLOC1S1_pRRLsin	ACAGAAGCTTTGGTGGATCACCTCAATGTGGGTGTGGCCAGGCCCTACAT	236
G444C_BLOC1S1_pRRLsin	ACAGAAGCTTTGGTGGATCACCTCAATGTGGGTGTGGCCAGGCCCTACAT	236

WT_BLOC1S1_pRRLsin	GAACCAGAGAAAAGCTGGACCATGAGGTGAAGACCCTACAGGTCCAGGCTG	286
G444C_BLOC1S1_pRRLsin	GAACCAGAGAAAAGCTGGACCATGAGGTGAAGACCCTACAGGTCCAGGCTG	286

WT_BLOC1S1_pRRLsin	CCCAATTTGCCAAGCAGACAGGCCAGTGGATCGGAATGGTGGAGAACTTC	336
G444C_BLOC1S1_pRRLsin	CCCAATTTGCCAAGCAGACAGGCCAGTGGATCGGAATGGTGGAGAACTTC	336

WT_BLOC1S1_pRRLsin	AACCAGGCACCTCAAGGAAATGGGGATGTGGAGAAGTGGGCTCGGAGCAT	386
G444C_BLOC1S1_pRRLsin	AACCAGGCACCTCAAGGAAATGGGGATGTGGAGAAGTGGGCTCGGAGCAT	386

WT_BLOC1S1_pRRLsin	CGAGCTGGACATGCGCACCATTGCCACTGCACTGGAATATGTCTACAAAG	436
G444C_BLOC1S1_pRRLsin	CGAGCTGGACATGCGCACCATTGCCACTGCACTGGAATATGTCTACAAAG	436

WT_BLOC1S1_pRRLsin	GGCAGCTGCAGTCTGCCCTTCCTAGCCCCTGTTCCCTCCCCAACCCCTA	486
G444C_BLOC1S1_pRRLsin	GGCAGCTGCAGTCTGCCCTTCCTAGCCCCTGTTCCCTCCCCAACCCCTA	486

WT_BLOC1S1_pRRLsin	TCCCTCCTACCTCACCCGAGGGGAAGGAGGGAGGCTGACAAGCCTTGA	536
G444C_BLOC1S1_pRRLsin	TCCCTCCTACCTCACCCGAGGGGAAGGAGGGAGGCTGACAAGCCTTGA	536

WT_BLOC1S1_pRRLsin	ATAAAACACAAGCCTCCGTTTCTCGAGCCACGTATCGCCTGACTCTGTGG	586
G444C_BLOC1S1_pRRLsin	ATAAAACACAAGCCTCCGTTTCTCGAGCCACGTATCGCCTGACTCTGTGG	586

WT_BLOC1S1_pRRLsin	TGTGTTT CAGACTAGTCTCGTGCAGATGGACAGCACCGCTGAGCAATGGA	636
G444C_BLOC1S1_pRRLsin	TGTGTTT CAGACTAGTCTCGTGCAGATGGACAGCACCGCTGAGCAATGGA	636
