

Supplemental Table 2. Primers for generated constructs and mutations

PVX cloning (pGR106 ClaI-NotI)	
CRN8_F1	GCGATCGATGGTTACTTTGTTCTGTGCCGTCGTTGGTGTG
CRN8_F118	GCGCCATGGAATCGATGGGACAAGTAGTGCGCCTATTTCTG
CRN8_F146	GCGCCATGGAATCGATGCTGCCGACACGCGGAGATCTAAATGAATTTATC
CRN8_F176	GCGCCATGGAATCGATGTTGATACTAGGCCAACTCCTTCGAGATAAATTG
CRN8_F220	GCGCCATGGAATCGATGAGTGCATTTTATTATTTCTGGGATTCAATTATC
CRN8_F282	GCGCCATGGAATCGATGATCACTGTGCCTCGTGAGGAGCTCTCTAAAAAG
CRN8_R514	GCGGCGGCCGCTCACGTGTGGGATCCACCTTCCATAAAAAATATC
CRN8_R551	GCGGCGGCCGCTCACGCTCTTTCGGGCTCCGCAGTCCATTC
CRN8_582	GCGGCGGCCGCTCAAGCTTCACGTTCAAACGTTGACAGAAGCTGTAAGGC
CRN8_R	GCGCTGCAGCGGCCGCTCAGGCACGTCTGTGCTTCTTGCGCAC

pENTR	
CRN8_pENTR_F_MvD	caccATGGGGACAAGTAGTGCGCCTATTTCTG
CRN8_pENTR_R_MvD	TCAGGCACGTCTGTGCTTCTTGCGCACACCC

pTRBO cloning (pJL48 PacI-NotI)	
CRN8_118_F_pJL48_MvD	CGATGATGATTTCGGAGGCTACTGTGCGCCG
CRN8_599_R_pJL48_MvD	GATTACGGACACAATCCGTTATTTATTATGCATCTTG

RD to AA mutation	
CRN8_F_AAtoRD_MvD	AACGGGTGGATGCACGCAGCCATCCGTTGGTCTAACGTGAT
CRN8_R_AAtoRD_MvD	TTAGACCAACGGATGGCTGCGTGCATCCACCCGTTGCGA

D to N mutation	
F_CRN8_D470N_MvD	CGGGTGGATGCACAGAAACATCCGTTGGTC
R_CRN8_D470N_MvD	GACCAACGGATGTTTCTGTGCATCCACCCG

S to A mutations	
F_CRN8_S249A_MvD	CGTCAACCGGGATTTCGGCCAGGAAATCC
R_CRN8_S249A_MvD	GGATTTCTTGCCGAATCCCGGTTGACG
F_CRN8_S281A_MvD	GAACCTCGTACTGCTATCACTGTGCCTCG
R_CRN8_S281A_MvD	CGAGGCACAGTGATAGCAGTACGAGGTTT
F_CRN8_S385A_MvD	GTCAAGGTGCGGTTGGCTCCGATTTTCG
R_CRN8_S385A_MvD	CGAAAATCGGAGCCAACCGCACCTTGAC
F_CRN8_S474A_MvD	CATCCGTTGGGCTAACGTGATCAAGC
R_CRN8_S474A_MvD	GCTTGATCACGTTAGCCCAACGGATG
F_CRN8_S587A_MvD	CGTGAAGCTGCTGAGCAGGAAGCACAGGGC
R_CRN8_S587A_MvD	GCCCTGTGCTTCTGCTCAGCAGCTTCACG