Supplementary Table 1. Primers used in the site-directed mutageneses

Mutation	Primer	Sequence (5'→3')
G16E	Forward	cttagttacagtaaaattagagggacagctgatagaagcc
	Reverse	ggcttctatcagctgtccctctaattttactgtaactaag
G17E	Forward	cttagttacagtaaaattaggggaacagctgatagaagcc
	Reverse	ggcttctatcagctgttcccctaattttactgtaactaag
I64M	Forward	gacaatatgatcagatacttatggaaatttgtggaaaaaaggc
	Reverse	gccttttttccacaaatttccataagtatctgatcatattgtc
K70R	Forward	cttatagaaatttgtggaaaaagggctataggtacagtgttagtagg
	Reverse	cctactaacactgtacctatagccctttttccacaaatttctataag
I72V	Forward	gaaatttgtggaaaaaaggctgtaggtacagtgttagtagg
	Reverse	cctactaacactgtacctacagccttttttccacaaatttc

* Underlined bases correspond to the changes made to the original BD6-15 clone.

Supplementary Table 2. Primers used in the oligonucleotide ligation assays

Protease codon	Upstream primer	Target	Downstream primer
17	5’-GTTACAGTAAAATTAGGGGA-3’	17E	5’-CAGCTGATAGAAGCCTTAT-3’
	5’-GTTACAGTAAAATTAGGGGG-3’	17G	
64	5’-AATATGATCAGATACTTATG-3’	64M	5’-GAAATTTGTGGAAAAAAGGC-3’
	5’-AATATGATCAGATACTTATA-3’	64I	
72	5’-AATTTGTGGAAAAAAGGCTG-3’	72V	5’-TAGGTACAGTGTTAGTAGGA-3’
	5’-AATTTGTGGAAAAAAGGCTA-3’	72I	

* Underlined bases correspond to the discriminating nucleotide position between the two variants present in each head-to-head competition.