



Supplementary Figure 1: M250I mutation and disease progression in subtype B infections. Comparison of plasma viral loads (panel A) and CD4+ counts (panel B) between individuals infected with M250I mutants and those without in the chronic subtype B cohort.

Table S1: List of Primers

Primer Name	Sequence	HXB2 Numbering
Gag D Reverse	AAT TCC TCC TAT CAT TTT TGG	2382-2402
Gag D Forward	TCT CTA GCA GTG GCG CCC G	626-644
Gag A Forward	CTC TCG ACG CAG GAC TCG GCT T	683-704
Gag C Reverse	TCT TCT AAT ACT GTA TCA TCT GC	2334-2356
Gag A Reverse	ACA TGG GTA TCA CTT CTG GGC T	1282-1303
Gag B Forward	CCA TAT CAC CTA GAA CTT TGA AT	1226-1246
Gag B Reverse	CTC CCT GAC ATG CTG TCA TCA T-	1825-1846
Gag C Forward	CCT TGT TGG TCC AAA ATG CG	1748-1768
Gag BssHII F	AGA AGG AGA GAG ATG GGC GCG CCA ACT CGA GGA	778-810
Gag BssHII R	TCC TCG AGT TGG CGC GCC CAT CTC TCT CCT TCT	778-810
Gag XhoI F	ATG ATA CAG TAC TCG AGG ACA TAA ATT TGC CA	2338-2369
Gag XhoI R	TGG CAA ATT TAT GTC CTC GAG TAC TGT ATC AT	2338-2369
pBR-WT F	GGCACTTACAACCAGCAACACAGCCTCCAATAATCCTGCTTGTGCC	8919-8964
pBR-WT R	GGCACAAGCAGGATTATTGGAGGCTGTGTTGCTGGTTGTAAGTGCC	8919-8964
pBR-Rev F	GACCAATGACTTATAAGGGAGCGTTTTGATCTCAGCTTCTTTTAA	9026-9070
pBR-Rev R	TTAAAAAGAAGCTGAGATCAAACGCTCCCTTATAAGTCATTGGTC	9026-9070
T242N F	GGAACTACTAGTAACCTTCAGGAACAA	1501-1527
T242N R	TTGTTCTGAAGGTTACTAGTAGTTCC	1501-1527
M250I F	ATAGCATGGATAACAAGTAAC	1528-1548
M250I R	GTTACTTGTTATCCATGCTAT	1528-1548
IG-F	GCATGGATAACAGGTAACCCACC	1531-1553
IG-R	GGTGGGTACCTGTTATCCATGC	1531-1553
NIG-F	CTACTAGTAACCTTCAGGAACAAATAGCATGGATAACAGGTAACCCA	1505-1551
NIG-R	TGGGTACCTGTTATCCATGCTATTTGTTCTGAAGGTTACTAGTAG	1505-1551
D260E-F	TCCAGTGGGAGAAATCTATAAAAAG	1557-1580
D260E-R	CTTTTATAGATTTCTCCCACTGGA	1557-1580
Nef-WT-For	GCAACACAGCCGCAATAAT	8933-8952
Nef-Rev	CGCTCCCTTATAAGTCATTGGTCTT	1924-1948

Table S2: Stabilization effect of 248A on the subtype B M250I variant

Description of helix 6 peptide	Sequence of helix 6 peptide*	Minimum energy value in predicted cluster	Maximum energy value in predicted cluster
248G variant of HIV-1 subtype B (with 250I)	TLQEQI <u>G</u> WIT <u>N</u>	-10.195 kCal/mol	-10.116 kCal/mol
252S variant of HIV-1 subtype B (with 250I)	TLQEQI <u>G</u> WIT <u>S</u>	-8.80 kCal/mol	-4.70 kCal/mol
248A variant of HIV-1 subtype C (with 250I)	TLQEQI <u>A</u> WIT <u>N</u>	-14.724 kCal/mol	-14.717 kCal/mol

*Peptide spans amino acids 242 to 252