

Additional file 4: Table S3. Synonymous mutations of recoded HIV-1 variants after 15 passages in MT-4 cells.

	Virus	Nucleotide position ^a	Starting nucleotide	Reversion to wt virus	Other mutation	Number of clones		
Replicate 1	HIV-Pwtp15	207	T		C	1/24		
		210	A		G	1/24		
		261	A		G	1/24		
		HIV-Pmaxp15	81	G	A		1/21	
			295	T	C		1/21	
		HIV-PminAp15	9	C		T	1/24	
			72	C		T	1/24	
			97	C	T		10/24	
			99	C	A		10/24	
Replicate 2	HIV-Pwtp15	66	T		C	1/21		
		285	C		T	1/21		
		HIV-Pmaxp15	-	-	-	-	-	
		HIV-PminAp15	30	C		T	1/20	
			57	G	A		1/20	
			78	C		T	1/20	
			93	C		T	1/20	
			195	A		G	1/20	
290			T		A	1/20		
Replicate 1	HIV-GwtAp15	87	T		C	1/21		
		96	A		G	1/21		
		174	A		G	1/21		
		201	C		T	1/21		
		246	A		G	1/21		
		264	A		G	1/21		
		279	G		A	1/21		
		336	G		A	1/21		
		345	A		G	1/21		
			HIV-GminAp15	18	C		T	5/17
				42	T		C	10/17
				60	C		A	1/17
				66	C	G		9/17
				162	C		T	14/17
	165			G	A		1/17	
	189			A	G		2/17	
		HIV-GwtBp15	201	T	C		8/17	
			216	C		T	1/17	
			258	C	T		4/17	
			291	T	C		1/17	
			303	C	A		1/17	
333			G		A	3/17		
417			G		A	1/21		
489			T		C	1/21		
504			G		A	1/21		
		621	G		A	1/21		
		705	C		T	1/21		
		720	T		C	1/21		
		755	A		C	1/21		

	HIV-GminBp15	369	A		C	1/19
		378	C	T		18/19
		384	A	C		18/19
		385	T	A		18/19
		386	C	G		18/19
		387	G	C		18/19
		399	G	T		18/19
		399	G		A	1/19
		408	A	G		18/19
		411	T	C		18/19
		429	G	A		14/19
		435	A	G		7/19
		477	C		T	1/19
		612	G	C		2/19
		612	G		A	3/19
		615	T	C		1/19
		687	C	A		1/19
		711	C	A		3/19
		714	A		G	1/19
		717	T		C	7/19
	HIV-GwtCp15	762	A		G	1/21
		870	G		A	21/21
		903	T		C	1/21
		927	T		C	1/21
	HIV-GminCp15	822	T		G	1/22
		843	G		A	1/22
		906	G	A		1/22
		921	A	G		1/22
		978	T		C	22/22
		984	G	A		22/22
		1008	G	A		1/22
		1044	G	A		15/22
		1110	A		G	6/22
		1113	G	A		1/22
	HIV-GwtDp15	1146	T		C	1/21
		1151	G		A	1/21
		1335	A		G	1/21
		1380	A		G	1/21
		1449	G		A	1/21
	HIV-GminDp15	1121	C		T	1/12
		1170	T		A	1/12
		1215	C		T	1/12
		1221	G		A	1/12
		1224	A		C	1/12
		1248	C	T		1/12
		1386	C		T	4/12
		1395	T		C	3/12
Replicate 2	HIV-GwtAp15	18	A		G	1/17
		144	T		G	2/17
		174	A		G	1/17
		195	A		G	3/17
		294	G		A	1/17
		318	A		G	1/17

	HIV-GminAp15	18	C		T	1/22
		42	T		C	16/22
		51	G	A		1/22
		66	C	G		14/22
		69	C		T	1/22
		90	G	A		3/22
		123	C		G	1/22
		162	C		T	20/22
		201	T	C		15/22
		258	C	T		1/22
		291	C	T		2/22
		306	T	C		3/22
		333	G		A	4/22
	HIV-GwtBp15	393	T		C	1/15
		405	G		A	1/15
		420	G		A	1/15
		453	T		C	1/15
		477	G		A	1/15
		495	C		T	1/15
		675	A		G	1/15
		711	A		G	1/15
	HIV-GminBp15	378	C	T		23/23
		384	A	C		23/23
		385	T	A		23/23
		386	C	G		23/23
		387	G	C		23/23
		399	G	T		23/23
		408	A	G		23/23
		411	T	C		23/23
		429	G	A		23/23
		435	A	G		14/23
		471	G	A		1/23
		477	C		T	1/23
		510	G		A	2/23
		534	A		G	2/23
		558	G		A	3/23
		612	G	C		2/23
		612	G		A	5/23
		615	T	C		3/23
		639	T		C	1/23
		687	C	A		6/23
		711	C	T		1/23
		717	T		C	3/23
	HIV-GwtCp15	822	A		G	1/9
		870	G		A	9/9
		915	A		G	1/9
		918	C		T	1/9
	HIV-GminCp15	876	G	C		1/10
		895	C		A	1/10
		906	G	A		1/10
		978	T		C	10/10
		984	G	A		10/10
		1044	G	A		8/10

		1110	A		G	2/10
	HIV-GwtDp15	1176	T		C	1/14
		1197	G		A	1/14
		1405	A		G	3/14
		1470	G		A	14/14
	HIV-GminDp15	1146	C	T		1/12
		1154	A		G	1/12
		1188	A		T	1/12
		1203	C		T	1/12
		1221	G		A	1/12
		1413	T		C	1/12
		1470	G		A	1/12

^aprotease and gag nucleotide numbering