

**Table S5:** Predicted phenotypes and V3 sequences of longitudinally isolated Env clones of subject DS5 for which coreceptor usage was determined in the Trofile assay.

Time point (mo to T0)	<i>n</i> clones	Phenotype Trofile	Predicted phenotype (PSSM/g2p)	V3 sequence <sup>a</sup> CTRPNNNTRKGIHIGPGRTFYATGEIIGDIRQAHC
-6	9	R5	nsi/r5	-----
-3	7	R5	nsi/r5	-----S-----
	2	R5	nsi/r5	-----
	1	R5	nsi/r5	-----HV-----
0	7	R5	nsi/r5	-----
	2	R5	nsi/r5	-----S-----
	1	R5	nsi/r5	--G-----S-----
	1	R5	nsi/r5	-----RS-----ALFTA-----N-----
3	5	R5	nsi/r5	-----S-----
	1	R5	nsi/r5	-----M-----
	1	R5	nsi/r5	-----RS-----A-FTA-----N-----
	2	Dual-X	si/x4	-----RS-Y-----ARFTA-K-----K-Y-
6	3	R5	nsi/r5	-----
	1	R5	nsi/r5	-----V-----
	1	R5	nsi/r5	-----RS-Y-----
	7	Dual-X	si/x4	-----RS-Y-----ARFTA-K-----K-Y-

<sup>a</sup> V3 amino acid sequences are shown relative to the major sequence in PBMCs at time point -12 months as determined by ultra-deep sequencing.