

**Table S4:** Predicted phenotypes and V3 sequences of longitudinally isolated Env clones of subject DS4 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> CTRPNNNTRKRSINIGPGRAFYYTTGAIIGDIRQAHC
-6	4	R5	nsi/r5	-----
	2	R5	nsi/r5	-----I-----
	1	R5	nsi/r5	-----N-----
	1	R5	nsi/r5	-----E--N-----
-3	3	R5	nsi/r5	-----K-----
	6	Dual-R	nsi/r5	-----K-----
0	8	R5	nsi/r5	-----T-----
	4	Dual-X	si/x4	-----IK-G-TL----V----K-----
6	4	R5	nsi/r5	-----T-----E--N-----
	2	R5	nsi/r5	-----R-----
	1	R5	nsi/r5	-----E--N-----
	5	Dual-X	si/x4	-----K-G-TL----V----K-V-----
9	6	R5	nsi/r5	-----E--N-----
	2	R5	nsi/r5	-----R-----
	1	R5	nsi/r5	-----E--N-K-----
	1	R5	nsi/r5	-----T-----
	2	Dual-X	si/x4	-----K-G-TL----V----K-V-----
	1	Dual-X	si/x4	-----K-G-TL----V----K-----

<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.