

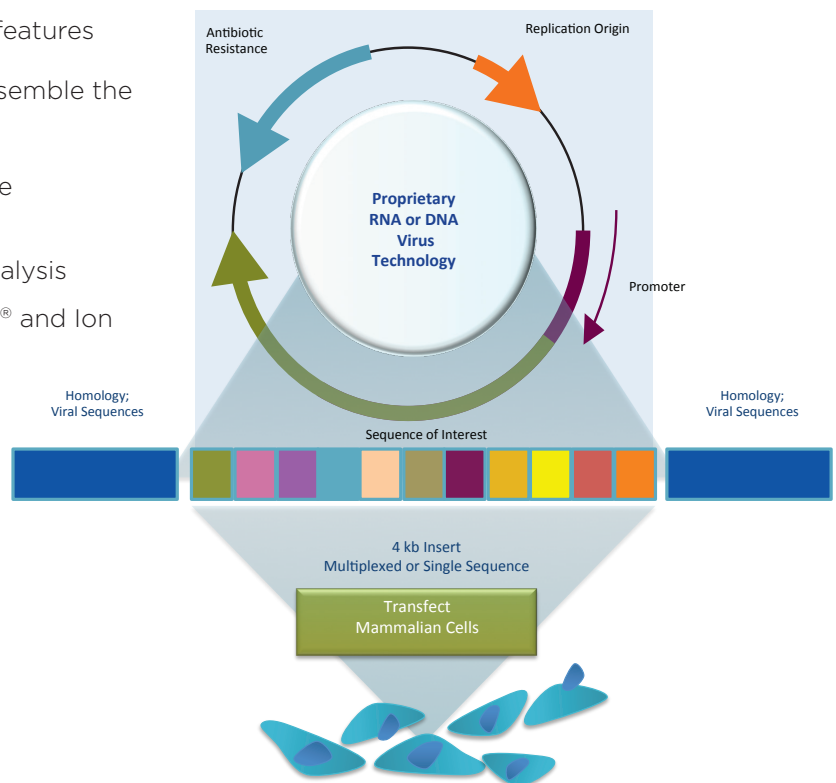
Seraseq™ HIV-1 Drug Resistance and Tropism Reference Materials

Recombinant viral technology-based reference material to assess the performance of HIV-1 drug resistance assays

- Assess 47 mutations across protease (PRO), reverse transcriptase (RT), and integrase (INT) regions of HIV-1 virus
- Contains envelope sequences indicative of either CCR5 or CXCR4 co-receptor usage to monitor tropism determination
- Each kit includes three separate mixtures to assess a range of minor variants (target mutation frequencies of 20%, 5% and 1%)
- Develop, evaluate, monitor, and troubleshoot NGS HIV-1 drug resistance assays
- Utilizes recombinant virus with AccuPlex™ technology formulated in defibrinated human plasma

AccuPlex™ Recombinant Viral Technology

- Non-replicative virus with multiple safety features
- Mammalian-based recombinants which resemble the HIV-1 virus structure
- Highly stable - no loss in titer after multiple freeze-thaws
- Allele frequency verified by digital PCR analysis
- Tested by NGS using both Illumina® MiSeq® and Ion Torrent™ PGM platforms



Seraseq™ HIV-1 Drug Resistance and Tropism Reference Materials - Mutations Included

	Protease Gene	RT Gene (NRTI)	RT Gene (NNRTI)	Integrase Gene
1	L24I (TTA to ATA)	M41L (ATG to TTG)	L100I (TTA to ATA)	T66I (ACA to ATA)
2	D30N (GAT to AAT)	K65R (AAA to AGA)	K101E (AAA to GAA)	L74M (CTG to ATG)
3	V32I (GTA to ATA)	D67N (GAC to AAC)	K103N (AAA to AAC)	E92Q (GAA to CAA)
4	M46I (ATG to ATA)	T69S (ACT to TCT) insert 2 Serines	V108I (GTA to ATA)	T97A (ACA to GCA)
5	I47V (ATA to CTA)	K70R (AAA to AGA)	V106A (GTA to GCA)	E138A (GAA to GCA)
6	G48V (GGG to GTG)	L74V (TTA to GTA)	Y181C (TAT to TGT)	G140S (GGA to TCA)
7	I50V (ATT to GTT)	F77L (TTC to CTC)	Y188L (TAT to TTA)	Y143R (TAC to CGC)
8	I54M (ATC to ATG)	Y115F (TAT to TTT)	G190A (GGA to GCA)	Q148H (CAA to CAC)
9	G73S (GGT to GCT)	F116Y (TTT to TAT)	P225H (CCT to CAT)	N155H (AAT to CAT)
10	L76V (TTA to GTA)	Q151M (CAG to ATG)	M230L (ATG to CTG)	
11	V82A (GTC to GCC)	M184V (ATG to GTG)		
12	I84V (ATA to GTA)	L210W (TTG to TGG)		
13	N88D (AAT to GAT)	T215Y (ACC to TAC)		
14	L90M (TTG to ATG)	K219Q (AAA to CAA)		

To learn more about Seraseq™ HIV-1 Drug Resistance and Tropism Reference Materials, please visit www.seracare.com or call 800-676-1881.



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