

# xGen™ HIV Amplicon Panel

The xGen Amplicon HIV Panel includes a premixed target-specific multiplex PCR primer pool designed to cover 99.3% of the Human Immunodeficiency Virus (HIV) genome.

To construct next generation sequencing (NGS) libraries for the Illumina® sequencing platform, this panel must be purchased with the xGen Amplicon Core Kit and xGen Amplicon indexing primers of choice. For more information, see the [xGen HIV Amplicon Panel webpage](#).

Features	Specifications
Panel information	Primers designed to target the HIV genome
Input material	HIV 1st or 2nd strand cDNA, or dsDNA plasmid minimum of 1,000 double-stranded copies
Multiplexing capability	Up to 1536 UDIs
Recommended read depth	500,000 reads per library, PE150 or PE250
Time required	~2.5 hours
Number of amplicons	107

## Protocol modifications

Please use the [xGen Amplicon Panels for viral genome sequencing protocol](#) for the full description of the procedures. The following thermocycler conditions and SPRI ratios have been specially optimized for this panel:

Temperature (°C)	Time	Number of cycles
98	30 sec	1
98	10 sec	
65	5 min	4
65	1 min	
98	10 sec	24
64	1 min	
65	1 min	1
4	∞	

\*Confirm lid heating is turned ON and is set to 105°C. Allow the block to reach 98°C before loading sample

Temperature (°C)	Time	Number of cycles
37	20 min	1
98	30 sec	1
98	10 sec	
60	30 sec	9
66	1 min	
4	∞	

\* Confirm lid heating is turned ON and is set to 105°C. Allow the block to reach 37°C before loading samples.

Proceed to post indexing PCR SPRI Cleanup: 0.65X (32.5 µL PEG-NaCl).

For more information, go to: [www.idtdna.com/ContactUs](http://www.idtdna.com/ContactUs)

**For Research Use Only. Not for use in diagnostic procedures.** Unless otherwise agreed to in writing, IDT does not intend these products to be used in clinical applications and does not warrant their fitness or suitability for any clinical diagnostic use. Purchaser is solely responsible for all decisions regarding the use of these products and any associated regulatory or legal obligations.