

DeepChek® Assay HIV-1 Full PR/RT/INT Drug Resistance

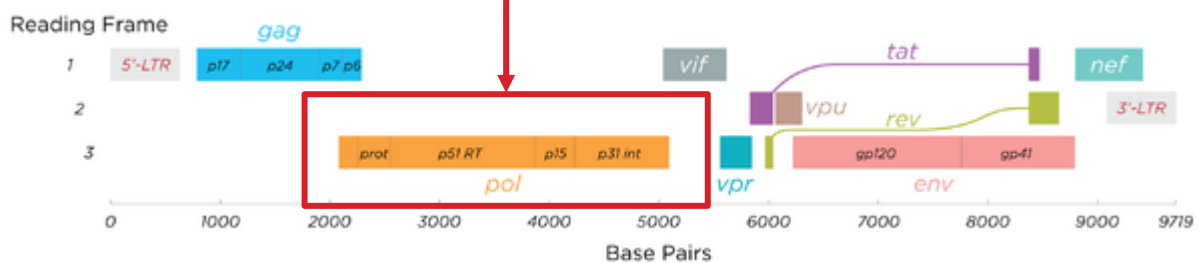
Genotyping of the Full HIV-1 *pol* Gene with PR+RT+INT Regions in One Single PCR Reaction (Single 3,7kb Amplicon)

ABL Diagnostics is pleased to announce the availability of a new product intended to be used for **HIV-1 Genotyping** through **Next Generation Sequencing (NGS)**



HIV-1 NGS Genotyping through a Single PCR reaction

Detection of resistance associated mutations in the full reverse transcriptase, protease and integrase regions



Sample Type

- Plasma
- Serum
- Whole blood (**proviral DNA**)
- DBS

Performances

- Sequencing of **whole pol gene** including the 3 genomics target regions in a single PCR reaction
 - Protease
 - Reverse Transcriptase
 - Integrase
- Single amplicon of ~3,7kb
- RT-PCR ~2h25 in a single tube
- Library preparation within 5h
- Total turnaround (from extraction to report): 18h
- Limited Hands-on time
- LoD:
 - 1000 copies/mL through one single PCR
 - Between 100 – 1000 copies/mL (~50% success rate)
 - Below 50 copies/mL with concentration process (protocols to be provided)
- Nested PCR primers included in the kit to rescue low viral load samples
- Specificity : designed to be pangenotypic

Highest Versatility & Flexibility

- Many extraction systems
- MiSeq, iSeq-100, MiniSeq; NextSeq
- S5, PGM, MinIon, MGI
- SANGER sequencing under validation

Validated Pooling with Other Tests & Applications

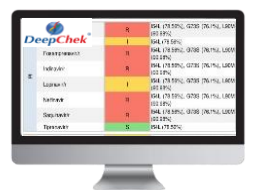
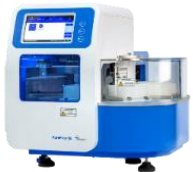
- HIV-1: gp120, gag, Whole Genome
- HCV
- HBV
- CMV
- HSV
- 16s RNA
- 18s RNA
- Tuberculosis
- Influenza
- ...

Data analysis through DeepChek®-HIV

- Web-based
- Software & database
- Local or Cloud (+HDS) hosting
- Unlimited user accounts
- Unlimited analyses
- Genotyping (per sample & cumulative)
- Subtyping
- Virtual-phenotyping
- Drug resistance
 - NRTIs
 - NNRTIs
 - PIs
 - IIs
- Up-to-date guidelines
 - HIVdb/Stanford
 - ANRS
 - Rega
 - Geno2pheno
 - HIV Grade
 - RIS
 - RenaGeno
- Tropism
- Reporting & labelling



Turnaround: 18h



Extraction

Amplification

NGS
Library
Preparation

Sequencing

Data Analysis

RELATED PRODUCT

- DeepChek® Assay HIV-1 Full PR/RT/INT Drug Resistance V1.x (RUO) 198A24

ALSO AVAILABLE FOR HIV GENOTYPING

- DeepChek® Assay PR / RT Genotyping and Drug Resistance V1 (CE IVD) 121A24
- DeepChek® Assay INT Genotyping and Drug Resistance V1 (CE IVD) 122A24
- DeepChek® Assay Whole Genome HIV-1 Genotyping V1 (CE IVD) 170A24

- DeepChek® Assay PR / RT Genotyping and Drug Resistance V1 (RUO) 101B24
- DeepChek® Assay INT Genotyping and Drug Resistance V1 (RUO) 102C24
- DeepChek® Assay Whole Genome HIV-1 Genotyping V1 (RUO) 170A24_RUO
- DeepChek® Assay V3 LOOP / TROPISM V1 (RUO) 103A24
- DeepChek® Assay GP41/GP120 Genotyping and Drug Resistance V1 (RUO) 194A24
- DeepChek® Assay GAG Genotyping and Drug Resistance V1 (RUO) 195A24

- DeepChek® HIV Software (CE-IVD) S-12-023 (HL)
- ViroScore-HIV Annual Software License (CE IVD) S-09-014
- M-type hosting (HDS HealthCare data hosting) O-22-HDS-M