

# AllType™ FASTplex™ NGS

For In Vitro Diagnostic Use. (European Union Only.)

For Research Use Only. Not for use in diagnostic procedures. (USA & Canada)

## High-resolution genotyping

### Features of One Lambda™ AllType FASTplex NGS assay

#### Amplification

- One PCR reaction per sample
- Multiplex amplification in 2.5 hours
- No pooling of amplicons

#### Library preparation

- Early sample pooling
- Single-tube protocols for library processing
- Low number of pipetting events
- Compatible with:
  - Ion GeneStudio™ S5 Systems
  - Illumina™ MiSeq™ System
  - Illumina™ MiniSeq™ System
  - Illumina™ iSeq™ 100 System

#### Summary

- Single-day protocol
- Minimal learning curve
- Total hands-on time: <90 minutes\*
- Sample to sequencing in <7 hours
- Results in 1.5 days or less\*



### Intelligently Simple

The AllType FASTplex NGS assay combines the convenience of multiplex PCR with workflow simplicity by eliminating most of the pipetting, purification, and quantification steps required by traditional methods. By pooling amplicons into a single tube within the first hour, libraries can be prepared for sequencing in less than 3.5 hours with minimal hands-on time.

**Table 1. Gene coverage for AllType FASTplex NGS assay**

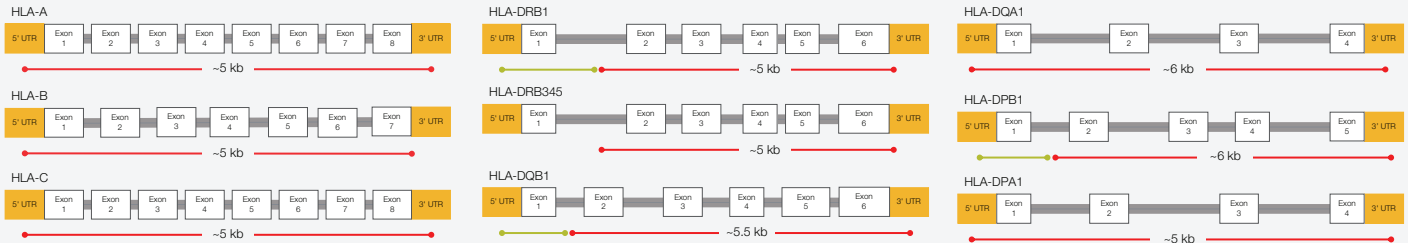
Locus	11-loci Multiplex PCR
A	Full gene
B	Full gene
C	Full gene
DRB1	Exon 1 + exon 2 – 3' UTR
DRB345	Exon 2 - 3' UTR
DQB1	Exon 1 + exon 2 – 3' UTR
DQA1	Full gene
DPB1	Exon 1 + exon 2 – 3' UTR
DPA1	Full gene

\* Based on one technologist preparing 24 samples. Time may vary depending on the sequencer and sequencing kit.

## AllType FASTplex NGS assay

### Intelligently Simple

#### 11-loci multiplex reaction



#### Single-tube workflow



##### Library Preparation

##### Sequencing

##### Analysis

##### Reporting & Advanced Analytics

**< 7 hours total**  
**< 90 minutes**  
**hands-on time**

\*Single tube library preparation protocol

Ion GeneStudio S5  
 Illumina MiniSeq  
 Illumina MiSeq  
 Illumina iSeq 100

Automated with  
 TypeStream Visual  
 NGS Analysis Software

Data integration with  
 HistoTrac System &  
 HLA Fusion Software

#### Ordering information

Description	Quantity	Cat. No.
For In Vitro Diagnostic Use (European Union Only).		
AllType FASTplex NGS 11 Loci Flex Kit - 96*	96	ALL-FAST11LF
AllType FASTplex NGS 11 Loci Kit - 48**	96	ALL-FAST11L
For Research Use Only. Not for use in diagnostic procedures (USA & Canada).		
AllType FASTplex NGS 11 Loci Flex Kit - 96*	96	ALL-FAST11LFX
AllType FASTplex NGS 11 Loci Kit - 48**	96	ALL-FAST11LX

\* Includes 96 unique barcodes and all reagents required for amplification and library preparation with Illumina systems.

\*\* Includes 48 unique barcodes and all reagents required for amplification and library preparation with Ion Torrent systems.

Find out more at [onelambda.com](http://onelambda.com)

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One Lambda, Inc.  
 22801 Roscoe Blvd., West Hills, CA 91304 U.S.A.  
 TEL: 747-494-1000  
 FAX: 747-494-1001  
 (U.S. and Canada Only)  
 INTERNATIONAL: Contact your local distributor



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