NXType™ NGS Typing Test (Research Use Only)

High Resolution HLA Genotyping

Key Benefits

- One library preparation per sample
- Long range PCR amplification in < 2.5 hours
- Multiplex design requires only two reactions per sample for A, B, C, DRB1, DRB345, DQB1, and DPB1 typing
- Optional DQA1 and DPA1 typing

Scalable

- Workflow suitable for low and high volume laboratories
- Up to 96 samples per sequencing run

Rapid Turnaround

- Less than 3 days required for entire workflow, sample amplification to results
- Ion Torrent™ technology reduces sequencing time to < 6 hours

High Resolution

- First-pass high resolution typing
- Single molecule sequencing significantly reduces phase ambiguities

Sample to Result in 3 Days

The NXType HLA Sequencing assay together with the Ion S5 System, enables first pass, high-resolution genotyping of the Class I and Class II loci of the Histocompatibility Leukocyte Antigen (HLA) genes.

Sequencing data generated on the Ion S5 system is downloaded in real time onto the Torrent Server™ and automatically processed after each run using TypeStream™ NGS Analysis Software. NGS reads are matched to the HLA allele library for genotype determination.

Table 1. Gene Coverage

Locus	Coverage
HLA-A	Full gene
HLA-B	Full gene
HLA-C	Full gene
HLA-DRB1	Exon 2 - Intron 3
HLA-DRB345	Exon 2 - Intron 3
HLA-DQB1	Exon 2 - Intron 3
HLA-DQA1	Full gene
HLA-DPB1	Exon 2 - 3' UTR
HLA-DPA1	Full gene

ONE LAMBDA
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NXType™ NGS Typing Test

Kit contains NXType™ Primer Mix, NXType™ Polymerase, NXType™ dNTPs, and NXType™ Buffer.

Ordering Information

NXType™ Assay	Tests	Cat. No
For Research Use Only. Not for use in diagnostic procedures.		
Class I		
NXType™ NGS Class I A,B,C Typing Test	96	NXT1ABCX
Class II		
NXType™ NGS Class II DRB1, DQB1, DPB1, DRB3,4,5 Typing Test	96	NXT2RQP1X
NXType™ NGS Class II DQA1 Typing Test	24	NXT2QA1X
NXType™ NGS Class II DPA1 Typing Test	24	NXT2PA1X
Library Reagents	**Tests/Runs**	**Cat. No**
For Research Use Only. Not for use in diagnostic procedures.		
Ion Xpress™ Plus Fragment Library Kit (20 rxns)	20	ION-XLIB
Ion Xpress ™ Barcode Adapters 1-16 Kit	160	ION-XBA1
Ion Xpress ™ Barcode Adapters 17-32 Kit	160	ION-XBA2
Ion Xpress ™ Barcode Adapters 33-48 Kit	160	ION-XBA3
Ion Xpress ™ Barcode Adapters 49-64 Kit	160	ION-XBA4
Ion Xpress ™ Barcode Adapters 65-80 Kit	160	ION-XBA5
Ion Xpress ™ Barcode Adapters 81-96 Kit	160	ION-XBA6
Ion Xpress ™ Barcode Adapters 1-96 Kit	960	ION-XBA7
Template & Sequencing Reagents	**Tests/Runs**	**Cat. No**
For Research Use Only. Not for use in diagnostic procedures.		
Ion S5/IA/530 Reagents Kit (8 rxn)*	8 runs	IONS5-IA-530
**Contains the following kits:*		
IA Reagent (kits)		*NXT-IA*
Ion 530™ Ion Sphere™ Particles –IA		
Ion PGM™ Enrichment Beads		*ION-EB*
Ion 520 & 530 Loading Reagents		
Ion S5™ Sequencing Reagents		
Ion S5™ Sequencing Solutions		
Ion 530™ Chip		*IONS5-530C4*
TapeStation™ Reagents and Consumables	**Tests**	**Cat. No**
For Research Use Only. Not for use in diagnostic procedures.		
Agilent High Sensitivity D1000 ScreenTapes	112	AG-HST
Agilent High Sensitivity D1000 Reagents	112	AG-HSTR
Agilent Loading Tips (10 boxes of 384 tips)	3840	AG-TLT
Agilent Tape Station Plates (bags of 10)	960	AG-TP01
Agilent Tape Station Plate Foils (bags of 100)	9600	AG-TP02

Find out more at **onelambda.com**

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TÜV ISO 13485 Registered

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