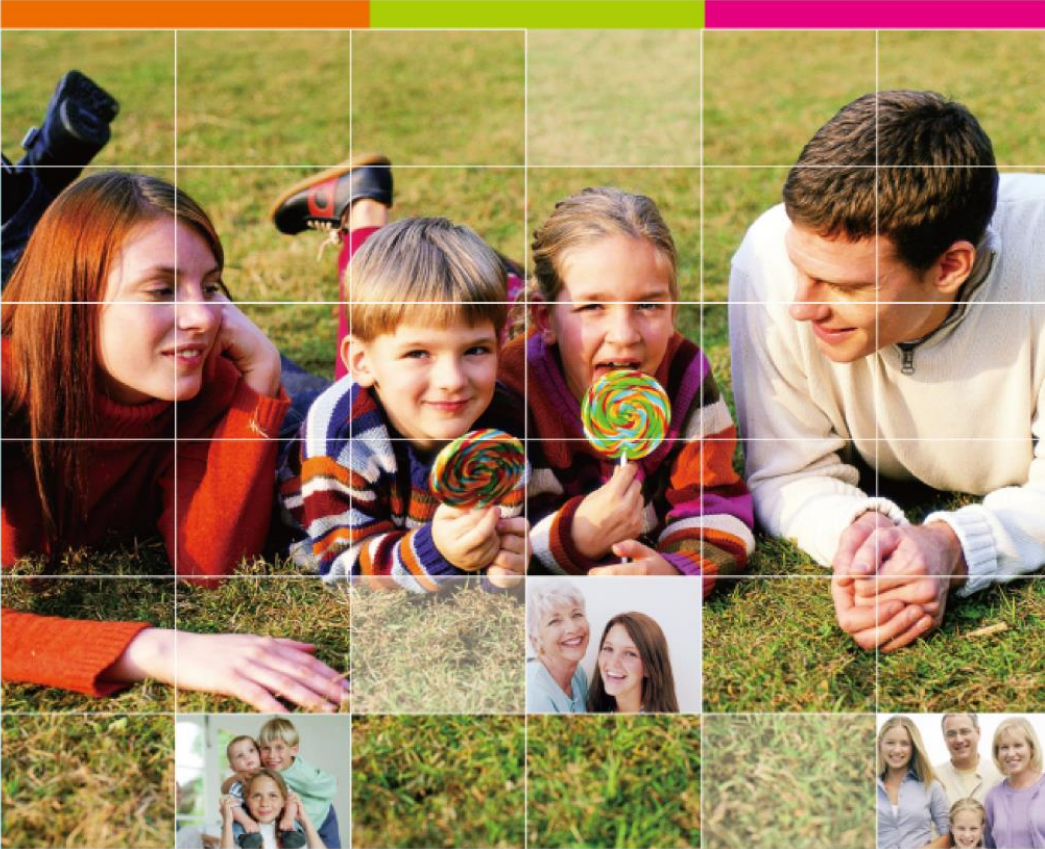


TBG Biotechnology Corp.



Accuracy
Efficiency
Quality



TBG BIOTECHNOLOGY CORP.
In Vitro Diagnostics (IVD)
Reagent / Instruments



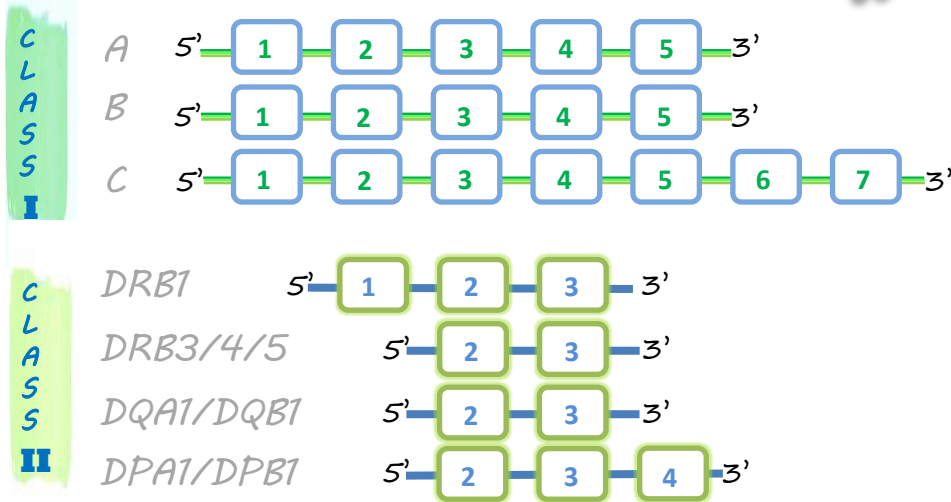
HLAssure™ SBT Kits

HLAssure™ SBT Kits determine high resolution typing of HLA class I and class II alleles. Most SBT products are available with both Locus Specific Amplification (LSA) and Group Specific Amplification (GSA) primers. Customized Group Specific Sequencing Primers (GSSP) are also available upon request.

- All typing kits are provided with:
- Amplification primers and Cycle-Sequencing Primers
 - Amplification Buffer with Taq Polymerase
 - Instruction For Use
 - AccuType™ SBT Analysis Software



Exon Coverage Table



CAT. #	PRODUCT	FORMAT	PACK SIZE
50110	HLAssure™ SE A Locus SBT Kit Exon 1~5	1 LSA + 12 GSA	24 Tests
50145	HLAssure™ SE A Locus SBT LSA Component Pack Exon 1~5	1 LSA	96 Tests
50185	HLAssure™ SE A Locus SBT GSA Component Pack Exon 1~5	12 GSA	24 Tests

SBT Kits

CAT. #	PRODUCT	FORMAT	PACK SIZE
50210	HLAssure™ SE B Locus SBT Kit Exon 1~5	1 LSA + 15 GSA	24 Tests
50245	HLAssure™ SE B Locus SBT LSA Component Pack Exon 1~5	1 LSA	96 Tests
50285	HLAssure™ SE B Locus SBT GSA Component Pack Exon 1~5	15 GSA	24 Tests
50410	HLAssure™ SE C Locus SBT Kit Exon 1~7	1 LSA + 12 GSA	24 Tests
50445	HLAssure™ SE C Locus SBT LSA Component Pack Exon 1~7	1 LSA	96 Tests
50485	HLAssure™ SE C Locus SBT GSA Component Pack Exon 1~7	12 GSA	24 Tests
50350	HLAssure™ SE DRB1-EX Locus SBT Kit Exon 1~3	2 LSA + 13 GSA	24 Tests
50345	HLAssure™ SE DRB1-EX Locus SBT LSA Component Pack Exon 1~3	2 LSA	96 Tests
50385	HLAssure™ SE DRB1-EX Locus SBT GSA Component Pack Exon 2	13 GSA	24 Tests
50370	HLAssure™ SE DRB3/4/5 Locus SBT Kit Exon 2~3	2 LSA	24 Tests
50510	HLAssure™ SE DQB1 Locus SBT Kit Exon 2~3	2 LSA + 6 GSA	24 Tests
50545	HLAssure™ SE DQB1 Locus SBT LSA Component Pack Exon 2~3	2 LSA	96 Tests
50585	HLAssure™ SE DQB1 Locus SBT GSA Component Pack Exon 2	6 GSA	24 Tests
50610	HLAssure™ SE DPB1 Locus SBT Kit Exon 2~4	2 LSA	24 Tests

SBT kit for RUO

CAT. #	PRODUCT	FORMAT	PACK SIZE
50810	HLAssure™ SE-L DQA1 Locus SBT Kit Exon 2~3	2 LSA	24 Tests
50710	HLAssure™ SE-L DPA1 Locus SBT Kit Exon 2~4	2 LSA	24 Tests

Morgan™ HLA SSP Typing Kits

Morgan™ HLA SSP Typing Kits determine HLA class I, class II, disease and drug associated HLA alleles and HPA alleles. SSP products are available in standard 96-well format with pre-aliquoted primers as well as and innovative divided-well design for specific products.

All typing kits are provided with:

- Typing Trays and Buffers
- PCR plate cover membrane
- Instruction For Use
- Interpretation Worksheets
- ExproType HLA Analysis Software (Available Upon Request)

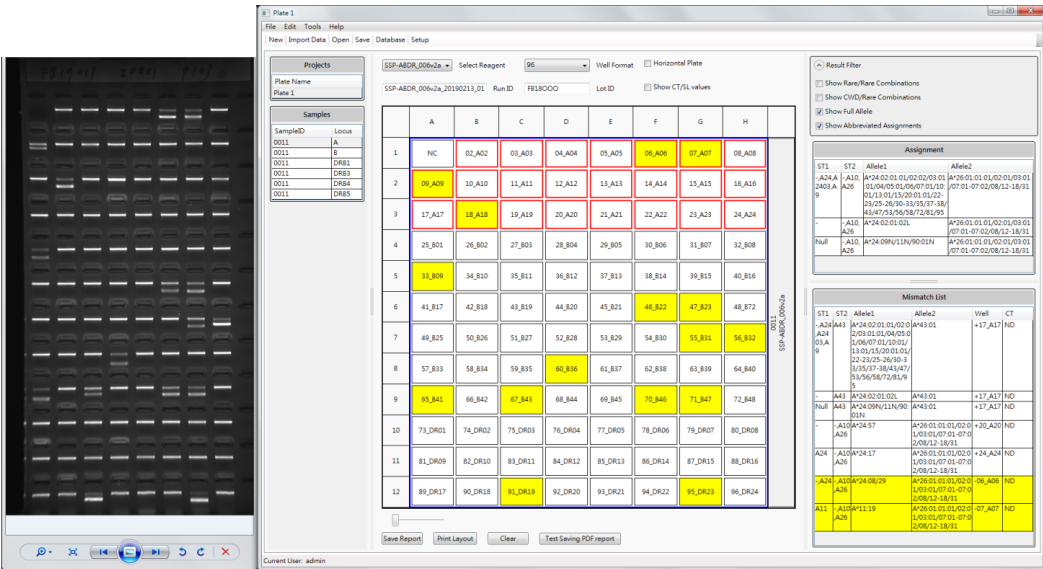


HLA-Class I/II SSP (low-med resolution, CE)

CAT. #	PRODUCT	FORMAT	PACK SIZE
33231 33230	Morgan™ HLA SSP ABDR Typing Kit 96 Wells / test	1 Test/Tray	10 Tests 20 Tests
33211 33210	Morgan™ HLA SSP ABC Typing Kit 96 Wells / test	1 Test/Tray	10 Tests 20 Tests
33270	Morgan™ HLA SSP DRB/DQB Typing Kit 32 Wells / test	3 Tests/Tray	30 Tests
33240	Morgan™ HLA SSP A Typing Kit 24 Wells / test	4 Tests/Tray	40 Tests
33250	Morgan™ HLA SSP B Typing Kit 48 Wells / test	2 Tests/Tray	20 Tests
33260	Morgan™ HLA SSP C Typing Kit 24 Wells / test	4 Tests/Tray	40 Tests
33280	Morgan™ HLA SSP DRB Typing Kit 24 Wells / test	4 Tests/Tray	40 Tests
33290	Morgan™ HLA SSP DQB Typing Kit 8 Wells / test	12 Tests/Tray	24 Tests
36310	Morgan™ HLA SSP B27 Typing Kit 1 Well / test	96 Tests/Tray	96 Tests

ExproType analysis software

The software can work with TBG ExProbe™ Real-Time PCR or Morgan™ SSP kits. Which can analyze HLA, HPA and KIR typing data by various qPCR instruments output format or with gel electrophoresis image.



Other Related SSP kits (RUO)

CAT. #	PRODUCT	FORMAT	PACK SIZE
6C198	Morgan™ HLA SSP B*58:01 Typing Kit	Single Well	48 Tests
6C199	Morgan™ HLA SSP B*15:02 Typing Kit (medium resolution)	3 wells	48 Tests
70020	HPAtype Platelet SSP Typing Kit (HPA-1 ~ 17)	2 tests/tray	20 Tests
36500	SSP Wipe Test	2 Wells/test	48 Tests
38503	Taq DNA Polymerase (5 units/ul) 200ul / vial	1 vial	1,000 Units
38550	DNA Ladder (900ul/vial)	1 vial	150 Rxns

ExProbe™ Real-Time PCR Typing Kits

ExProbe™ Typing Kits determine specific HLA, HPA and other alleles using Real Time PCR (RT-PCR) technology.

All typing kits are provided with:

- Typing Trays or Vials, Buffers, and Taq pol.
- Instruction For Use
- Interpretation Worksheets
- ExProType™ Analysis Software included with reagent purchase.

Features

- No gel run, no post-PCR contamination
- Multiplex reactions, results within 1 hour
- Every reaction contains an internal control reaction
- Accept DNA concentration from 10 to 40 ng/μl

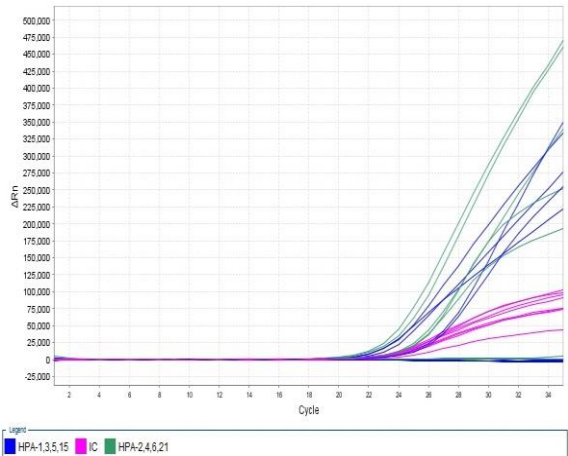


CAT. #	PRODUCT	FORMAT	PACK SIZE
66310	ExProbe™ SE HLA B*27 Typing Kit	Single Well TaqMan	96 Tests
67021	ExProbe™ SE HPA 1-6, 15, and 21 Typing Kit	8 Wells / test TaqMan	24 Tests



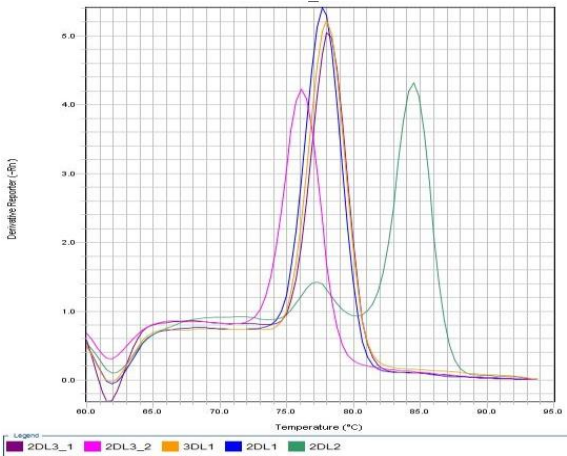
Real Time PCR Kits (RUO)

CAT. #	PRODUCT	FORMAT	PACK SIZE
66110	ExProbe™ HLA-ABCDRDQ Typing Kit	Single Well TaqMan	10 Tests
4C175	ExProbe™ HLA-ABDRDQ Typing Kit	Single Well MCA	10 Tests
66510	ExProbe™ HLA B*57:01 Typing Kit	Single Well MCA	48 Tests
66420	ExProbe™ HLA B*58:01 Typing Kit	Single Well MCA	48 Tests
6C075	ExProbe™ HPA 1-6, 15, and 21 Typing Kit	6 tests / tray MCA	48 Tests
67060	ExProbe™ HPA 1, 3, 5 and 15 Typing Kit	1 test / strip MCA	12 Tests
4C179	ExProbe™ HLA-AB, HPA Typing Kit	1 test / tray MCA	48 Tests
69010	ExProbe™ KIR Typing Kit (19 Wells / test)	3*8w PCR plate TaqMan	20 Tests
66500	ExProbe™ HLA Wipe Test 2 Wells / test	48 Tests/Kit TaqMan	48 Tests



TaqMan Probe

Use multiple fluorescent probes to detect internal and other targets.



MCA (melting curve analysis)

Assessment of the dissociation of dsDNA during heating.

QzNGS™ HLA MX9 Typing Kit

Intended Use

- For High Resolution Typing of HLA with NGS.

Features

- 3 hours amplification
- 20 samples with iSeq within 24 hours.
- Compatible workflow with SBT



Compatibility

- Use with Illumina iSeq and MiSeq.



Illumina MiSeq

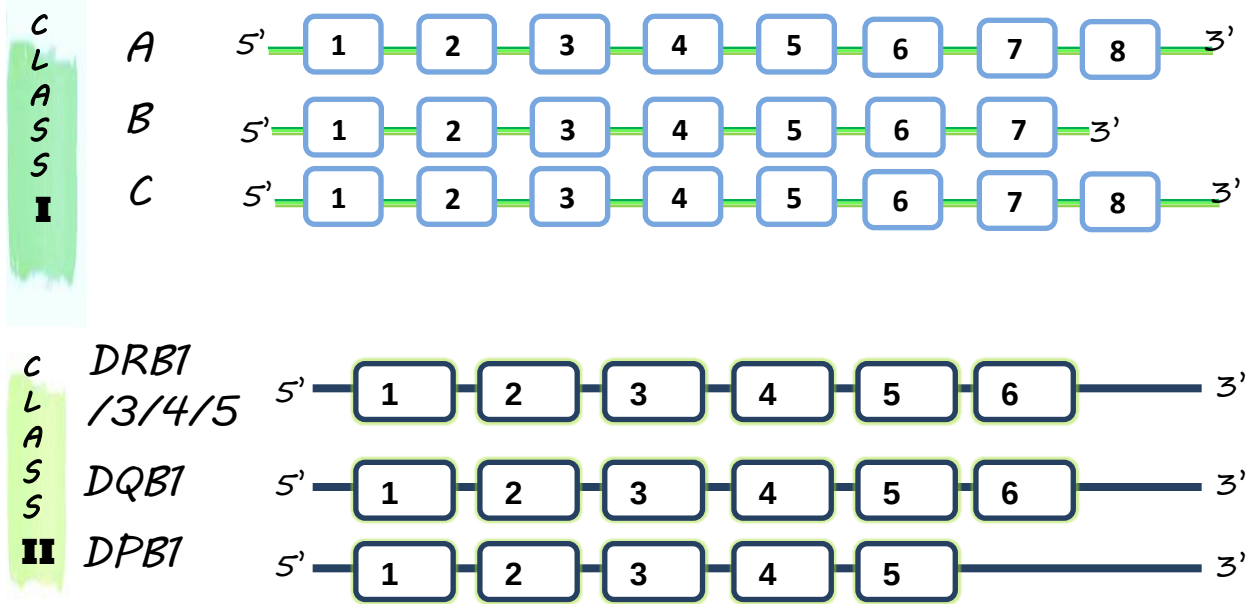
Specifications

- Each kit contains Individual Locus Primer, Buffer, Library Prep Enzymes, Index Plate.
- DNA conc. Can range from 10 to 40ng/μl.



Index Plate

HLA Gene Coverage



DX-A Automation of NGS Setup:



- Auto Select Individual Loci for PCR Amplification.
- Sample pooling.
- Library preparation.
- Minimal Hands on Time.

CAT. #	PRODUCT	PACK SIZE
55910	QzNGS™ HLA MX9 Typing Kit	96 Tests
56010	TBG Library accessory Kit	96 Tests
	TBG QzType NGS Software	1 copy

Services

TBG molecular typing laboratory provides a suite of HLA-typing service certified by **ASHI** (American Society for Histocompatibility and Immunogenetics) with the highest quality assurance. The laboratory has also joined international proficiency test programs to ensure consistent typing accuracy.

We are also happy to design and provide customized genetic test service base on client's needs; and welcomes international laboratory cooperation.

- **SSP**
- **qPCR**
- **SBT**
- **NGS**

Genotyping

- **HLA**
- **KIR**
- **HPA**



Company Quality Certificates- ISO13485



- TBG Taiwan and Xiamen are both ISO13485 Certified production facility.
- We have over 20 different HLA products with European CE, China CFDA, and/or US FDA.
- TBG HLAAssure™ SBT Kit are the first to received CFDA approval for clinical use in 2017.

Laboratory Certificates and Leadership



- TBG molecular typing lab is certified by ASHI for its HLA and KIR typing services.
- TBG Laboratory Director is Dr. Yen-hui Chang.



TBG Biotechnology Corp.

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