

## High-throughput, fast, accurate, affordable

Scisco Genetics offers flexible and affordable genotyping services for a variety of research and clinical applications, delivering high-quality data with minimal turnaround time.

### Service Offerings

#### Fully phased, 3-field

Dual-haplotype sequencing of complex immune genomic regions from individual samples.

Regions	Description
HLA Class I, II	3-field, fully phased*
MICA, MICB	Six exon typing
KIR	Haplotyping, Allele typing
Fcγ Receptors	Five loci typing
Client Preference	Customized genotyping plan

\*All known null alleles detected. Concordance with IMGT nomenclature rulesets updated biannually.

### HLA genotyping

#### Class I sequence based typing

- HLA-A, B, C; exons 1-7

#### Class II sequence based typing

- DRB1/3/4/5, DQA1, DQB1, DPA1, DPB1: exons 1-4

- Data are phased to a minimum of 6 digits, including all known null alleles.

#### We accept a diversity of specimens:

- Genomic
- Saliva
- PBMC
- Whole blood
- Buccal swabs
- WGA DNA

### Overview

#### HLA and KIR typing

Using high throughput next generation sequencing technology, we provide fast, accurate, and affordable high-resolution HLA and KIR typing services. Our methods enable simultaneous processing of hundreds or thousands of samples, minimizing costs and turnaround times.

Using the structures of 37 KIR gene content haplotypes, we developed a KIR haplotyping assay that can report unambiguous combinations of KIR haplotypes from an individual. Allelic typing is also available for select KIR loci.

### KIR haplotyping



Seven major KIR haplotypes

#### Typing of other target genes

We also provide high-resolution typing for the Fc-gamma receptor gene family and MICA and MICB genes, as well as Chimerism testing.

Interested in bigger pieces of the genome?

Want to build your own database?

We are happy to work with clients to develop a database through fosmid-based sequencing of extended genomic regions.