

## Ingenomics™ Y Profiler STR kit

Ingenomics™ Y Profiler STR Kit amplifies 37 commonly used Y-STR loci and 1 Y-indel using 6-dye fluorescent technology. This kit is highly compatible for different populations, has the ability to fulfil the needs of Y-chromosome analysis for both forensic and database construction. The Kit Includes 2 IQC markers.

### Stupendous Sensitivity and Suitability

The buffer system and amplification program were optimized to make the whole testing process from sample to PCR products finish in just over 90 min, for FTA cards, Saliva swabs and no extra extraction or purification is needed. This feature reduces the cost of time and labor, enabling analysis of high-throughput samples. The kit has been shown to have sensitivity and give profile at 62.5 pg/ul of DNA

### Effective performance and easy analysis

At the base of 38 genetic loci, through reasonable loci arrangement, enable the maximum length of the amplified product less than 500bp, and all amplified products are within the best detection range of the detection. The technology makes sure that the profiling outcomes generate most accurate and reliable genetic information as need for forensic analysis and statistical significance. To render better case work sample analysis the kit includes more than 6 Rapidly Mutant Y Markers, enabling users better power of discrimination on closely related samples

### Effective buffer systems to ensure sensitivity

Optimizing the PCR buffer system and thermal cycling parameters, significantly improved sensitivity of the kit. Making it suitable for testing of various kinds of forensic samples such as blood card, saliva card, oral swabs samples, bone, tissue, fabric etc., enabling analysts to obtain more effective genetic information.

### Appreciable resistance to inhibitors

The buffer system developed, to accommodate for amplification of all the 37 markers, with perfect composition and quality delivers inhibitor free performance against the known inhibitors such as Humic acid, heme, tannic acid with higher sensitivity. The improvised buffer formula enables anti-PCR inhibitor resistance capability and higher amplification efficiency, making simpler the analysis of samples containing DNA inhibitors, with stable, efficient amplification and reliable genotyping data.

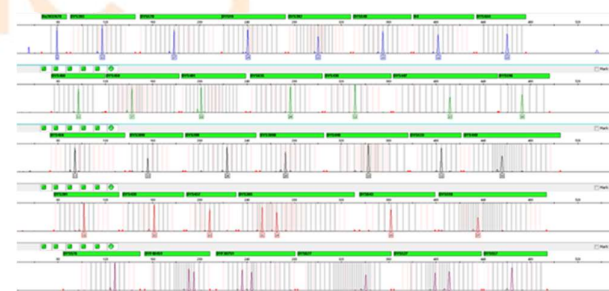
Yindel, DYS393, **DYS570**, DYS19, DYS392, DYS549, H4, DYS444, DYS460, DYS458, DYS481, DYS635, DYS438, DYS447, DYS596, DYS456, DYS389 I, DYS390, DYS389 II, DYS448, DYS533, **DYS449**, DYS391, DYS439, DYS437, DYS385 a/b, DYS643, **DYS518**, **DYS576**, DYS404 a/b, **DYF387a**, **DYF387 b**, **DYS627**, DYS527 a/b, DYS557, and two IQC markers (Indicated in RED are the RM-Y markers)

### Perfect for case analysis and DNA databasing

The kit contains 20 core loci, 15 preferred loci and 3 commonly used candidate loci, which includes 7 RM-Y loci. It is compatible with all Y chromosome loci required by current cases in domestic and abroad and provides higher family screening capabilities for the application of Y chromosome database construction. Enabling the compatibility and consistency of data capacity.

Locus	Fluorescent label	9948 Genotypes
rs2032678	FAM	2
DYS393	FAM	13
DYS570	FAM	18
DYS19	FAM	14
DYS392	FAM	13
DYS549	FAM	13
Y-DATA H4	FAM	12
DYS444	FAM	12
DYS460	HEX	11
DYS458	HEX	18
DYS481	HEX	24
DYS635	HEX	23
DYS438	HEX	11
DYS447	HEX	25
DYS596	HEX	16
DYS456	TAINGA	17
DYS389I	TAINGA	13
DYS390	TAINGA	24
DYS389II	TAINGA	31
DYS448	TAINGA	19
DYS533	TAINGA	12
DYS449	TAINGA	30
DYS391	ROX	10
DYS439	ROX	12
DYS437	ROX	15
DYS385a/b	ROX	11/14
DYS643	ROX	11
DYS518	ROX	38
DYS576	PURP	16
DYF448I	PURP	12/14
DYF387I	PURP	35/38
DYS627	PURP	22
DYS527a/b	PURP	21/22
DYS557	PURP	16

Ingenomics™ Y Profiler Allelic table with 9948 positive controls



Complete genotypic profile obtained with 100pg of DNA (9948) at 28 cycles of PCR

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Forensic Grade  
ISO 18385

