

Technical Information

Investigator[®] Human Identification PCR Kits

The QIAGEN portfolio of multiplex PCR human identification kits offers the most comprehensive and versatile coverage of current international STR standards. These include the European Standard Set (ESS), Combined DNA Index (CODIS), other non-standard loci and unique gonosomal loci. The kits are well suited for use in molecular forensics, paternity and kinship analyses, as well as cell line identification. The following tables summarize the kit markers by standard and dye color.

Table 1. Markers of the Investigator Human Identification PCR Kits by international standard

		Investigator 24plex QS Kit*	Investigator 24plex GO! Kit*	Investigator ESSplex SE QS Kit	Investigator ESSplex SE GO! Kit†	Investigator ESSplex Plus Kit	Investigator 10Dplex Plus Kit	Investigator 10Dplex GO! Kit	Investigator Triplex DSF Kit	Investigator Triplex AF5 QS Kit	Investigator HDplex Kit	Investigator Argus X-12 QS Kit	Investigator Argus Y-12 QS Kit	Investigator DIPlex Kit
Amelogenin	AM	AM	AM	AM					AM	AM	AM			AM
Quality Sensor	QS1, QS2	QS1, QS2						QS			QS	QS		
International Standards	20 CODIS core loci (Harris et al., 2015) ¹	12 ESS core loci	D1S1656	D1S1656	D1S1656						D12S391			
			D2S441	D2S441	D2S441									
			D10S1248	D10S1248	D10S1248									
			D12S391	D12S391	D12S391									
			D22S1045	D22S1045	D22S1045									
			D3S1358	D3S1358	D3S1358	D3S1358	D3S1358	D3S1358						
			D8S1179	D8S1179	D8S1179	D8S1179	D8S1179							
			D18S51	D18S51	D18S51	D18S51	D18S51				D18S51			
			D21S11	D21S11	D21S11	D21S11	D21S11				D21S11			
			TH01	TH01	TH01	TH01	TH01							
			vWA	vWA	vWA	vWA	vWA							
			FGA	FGA	FGA	FGA	FGA	FGA	FGA					
			D2S1338	D2S1338	D2S1338	D2S1338	D2S1338							
			D19S433	D19S433	D19S433	D19S433	D19S433							
			D16S539	D16S539	D16S539	D16S539	D16S539							
			D5S818				D5S818							
			D7S820				D7S820							
			D13S317				D13S317							
			CSF1PO				CSF1PO							
			TPOX				TPOX							
Additional loci	SE33 DY391	SE33						SE33	SE33	SE33	D2S1360 D3S1744 D4S2366 D5S2500 D6S474 D7S1517 D8S1132 D10S2325 D21S2055	DXS7132 DXS7423 DXS8378 DXS10074 DXS10079 DXS10101 DXS10103 DXS10134 DXS10135 DXS10146 DXS10148 HPR1B	DYS19 DYS385 DYS389-I DYS389-II DYS390 DYS391 DYS392 DYS393 DYS437 DYS438 DYS439	30 DIPS

* NDIS approved, for reference see www.fbi.gov. † Investigator ESSplex SE GO! does not contain QS1 and QS2.

Table 2. Autosomal STR markers of the Investigator Human Identification PCR Kits by dye color

Locus	Chromosomal mapping	Label dye									
		Investigator 2Aplex QS Kit	Investigator 2Aplex GOI Kit	Investigator ES5plex Plus Kit	Investigator ES5plex SE QS Kit	Investigator ES5plex SE GOI Kit	Investigator IDplex Plus Kit	Investigator IDplex GOI Kit	Investigator HDplex Kit	Investigator Triplex DSF Kit	Investigator Triplex AFS QS Kit
Amelogenin	Xp22.1–22.3, Yp11.2	6-FAM™	6-FAM	6-FAM	6-FAM	6-FAM				6-FAM	
QS2		BTP		6-FAM							
D1S1656	1q42	BTG	BTG	BTG							
D2S441	2p14	BTR2	BTR	BTR							
D2S1338	2q35	BTY	BTG	BTY	BTG						
D3S1358	3p25.3	6-FAM	6-FAM	6-FAM	6-FAM			6-FAM			
D2S1360	2p24-p22							6-FAM			
D3S1744	3p24							6-FAM			
D4S2366	4p16-15.2							6-FAM			
D5S2500	5q11.2							BTG			
D5S818	5q23.2	BTP			BTG						
D6S474	6q21-22							6-FAM			
D7S820	7q21.11	BTP			BTG						
D8S1132	8q23.1							BTG			
D7S1517	7q31.33							6-FAM			
D8S1179	8q23.1–23.2	BTY	BTG	BTY	BTR						
D10S1248	10q26.3	BTY	BTY	BTY							
D10S2325	10p12							BTY			
D12S391	12p13.2	BTG	BTY	BTY				6-FAM			
D13S317	13q31.1	BTP			BTY						
D16S539	16q24.1	BTP	BTG	BTG	BTY						
D18S51	18q21.3	BTR2	BTR	BTR	BTR	BTG					
D19S433	19q12	BTY	BTG	BTG	BTG						
D21S11	21q21.1	6-FAM	6-FAM	6-FAM	6-FAM						
D21S2055	21q22							BTG			
D22S1045	22q12.3	BTY	BTY	BTY							
FGA (FIBRA)	4q28.2	BTR2	BTY	BTR	BTR			HEX	6-FAM		
SE33 (ACTBP2)	6q14.2	BTG		BTG		BTY	6-FAM	6-FAM			
TH01 (TC11)	11p15.5	6-FAM	6-FAM	6-FAM	6-FAM						
vWA	12p13.31	6-FAM	6-FAM	6-FAM	6-FAM						
TPOX	2p25.3	BTG			BTG						
CSF1PO	5q33.1	BTP			BTY						
DYS391	Yq11.21	BTG									
QS1		BTP		6-FAM							

Table 3. X-chromosomal STR markers of the Investigator Argus X-12 QS Kit by dye color

Investigator Argus
X-12 QS Kit

Locus	Chromosomal mapping	Label dye
Amelogenin	Xp22.1-22.3, Yp11.2	6-FAM
QS1	—	6-FAM
DXS7132	Xq11.2	BTG
DXS7423	Xq28	BTY
DXS8378	Xp22.31	6-FAM
DXS10074	Xq12	BTG
DXS10079	Xq12	BTY
DXS10101	Xq26.2	6-FAM
DXS10103	Xq26.2	6-FAM
DXS10134	Xq28	6-FAM
DXS10135	Xp22.31	BTG
DXS10146	Xq28	BTY
DXS10148	Xp22.31	BTR
HPRTB	Xq26.2	BTR
D21S11	21q21.1	BTR

Table 4. Y-chromosomal STR markers of the Investigator Argus Y-12 QS Kit by dye color

Investigator
Argus Y-12 QS Kit

Locus	Chromosomal mapping	Label dye
QS	—	6-FAM
DYS19	Yp11.2	BTG
DYS385	Yq11.222	6-FAM
DYS389-I	Yq11.21	BTG
DYS389-II	Yq11.21	BTG
DYS390	Yq11.221	6-FAM
DYS391	Yq11.21	BTG
DYS392	Yq11.222	BTY
DYS393	Yp11.31	BTY
DYS437	Yq11.21	6-FAM
DYS438	Yq11.21	BTY
DYS439	Yq11.21	6-FAM

References

- Hares, D. R. (2015) Selection and implementation of expanded CODIS core loci in the United States. *Forensic Sci. Int. Genet.* **17**, 33–34.

Ordering Information

Product	Contents	Cat. no.
Investigator 24plex QS Kit (100)*†	Primer Mix, Fast Reaction Mix 2.0, Control DNA, Allelic Ladder 24plex, DNA Size Standard 24plex (BTO) and Nuclease-Free Water	382415
Investigator 24plex GO! Kit (200)*†	Primer Mix, Fast Reaction Mix 2.0, Control DNA, Allelic Ladder 24plex, DNA Size Standard 24plex (BTO)	382426
Investigator ESSplex Plus Kit (100)*†	Primer Mix, Fast Reaction Mix, Control DNA, Allelic Ladder ESSplex Plus, DNA Size Standard 550 (BTO) and Nuclease-Free Water	381535
Investigator ESSplex SE QS Kit†	Primer Mix, Fast Reaction Mix 2.0, Control DNA, Allelic Ladder ESSplex SE QS, DNA Size Standard 550 (BTO)	381575
Investigator ESSplex SE GO! Kit (200)*†	Primer Mix, Fast Reaction Mix, Control DNA, Allelic Ladder ESSplex SE GO! DNA Size Standard 550 (BTO)	381566
Investigator IDplex Plus Kit (100)*†	Primer Mix, Fast Reaction Mix, Control DNA, Allelic Ladder IDplex Plus, DNA Size Standard 550 (BTO) and Nuclease-Free Water	381625
Investigator IDplex GO! Kit (200)*†	Primer Mix, Fast Reaction Mix, Control DNA, Allelic Ladder IDplex GO! DNA Size Standard 550 (BTO)	381636
Investigator Triplex DSF Kit (400)*	Primer Mix, Reaction Mix, DNA Polymerase, Control DNA, Allelic Ladder Triplex DSF, DNA Size Standard, and Nuclease-Free Water	380327
Investigator Triplex AFS QS Kit (400)*	Primer Mix, Reaction Mix, DNA Polymerase, Control DNA, Allelic Ladder Triplex AFS, DNA Size Standard and Nuclease-Free Water	380317
Investigator HDplex Kit (100)*	Primer Mix, Reaction Mix, DNA Polymerase, Control DNA, Allelic Ladder HDplex, DNA Size Standard and Nuclease-Free Water	381215
Investigator Argus X-12 QS Kit†	Primer Mix, Fast Reaction Mix 2.0, Control DNA, Allelic Ladder Argus X-12 QS, DNA Size Standard 550 (BTO) and Nuclease-Free Water	383223
Investigator Argus Y-12 QS Kit (100)*	Primer Mix, Reaction Mix, DNA Polymerase, Control DNA, Allelic Ladder Argus Y-12 QS, DNA Size Standard and Nuclease-Free Water	383615
Investigator DIPlex Kit (100)	Primer Mix, Reaction Mix, DNA Polymerase, Control DNA, Allelic Ladder DIPlex, DNA Size Standard and Nuclease-Free Water	384015

* Not available in all countries; please inquire.

† Larger kit sizes available; please inquire.

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