

PCR amplification kits for forensic DNA profiling

Locus guide—loci amplified by kit, dye label, and probability of identity.

Locus	Chromosome location	Identifiler™, Identifiler™ Plus, and Identifiler™ Direct kits	MiniFiler™ kit	NGM™ kit	NGM SElect™ and NGM SElect™ Express kits	NGM Detect™ kit	GlobalFiler™ and GlobalFiler™ Express kits	VeriFiler™ Express kit
CSF1PO	5p33.3-34	6-FAM™	PET™				6-FAM	6-FAM
D5S818	5q21-31	PET					TAZ™	TAZ
D7S820	7q11.21-22	6-FAM	6-FAM				TAZ	TAZ
D13S317	13q22-31	VIC™	6-FAM				TAZ	TAZ
TPOX	2p23-2per	NED™					6-FAM	6-FAM
D3S1358	3p	VIC		PET	PET	TED™	6-FAM	6-FAM
D8S1179	8q24.13	6-FAM		VIC	VIC	SID™	VIC	VIC
D16S539	16q24-qter	VIC	NED	6-FAM	6-FAM	VIC	6-FAM	6-FAM
D18S51	18q21.3	NED	NED	VIC	VIC	VIC	VIC	VIC
D21S11	21p11.2-q21	6-FAM	VIC	VIC	VIC	TAZ	VIC	VIC
FGA	4q28	PET	PET	NED	NED	TED	NED	NED
THO1	11p15.5	VIC		NED	NED	VIC	NED	NED
vWA	12p12-pter	NED		6-FAM	6-FAM	TAZ	6-FAM	6-FAM
D2S1338	2q35-37.1	VIC	VIC	6-FAM	6-FAM	6-FAM	SID	SID
D19S433	19q12	NED		NED	NED	SID	NED	NED
D1S1656	1q42.2			PET	PET	TAZ	SID	SID
D2S441	2p14			PET	PET	TAZ	NED	NED
D10S1248	10q26.3			6-FAM	6-FAM	SID	SID	SID
D12S391	12p13.2			PET	PET	VIC	SID	SID
D22S1045	22q12.3			NED	NED	SID	TAZ	TAZ
SE33	6q14				PET	6-FAM	TAZ	
D6S1043	6q16.1							TAZ
Amelogenin	X: p22.1-22.3, Y: p11.2	PET	VIC	VIC	VIC	TAZ	VIC	VIC
Y-indel	Yq11.221					TAZ	VIC	VIC
DYS391	Yq11.21						VIC	
IQCS	NA					6-FAM		
IQCL	NA					6-FAM		
Penta D	21q							SID
Penta E	15q							VIC
Probability of identity*								
African American		1.31 x 10 ⁻¹⁸	6.52 x 10 ⁻¹¹	6.74 x 10 ⁻²⁰	8.12 x 10 ⁻²²	8.12 x 10 ^{-22**}	6.18 x 10 ⁻²⁷	2.55 x 10 ⁻³⁰
US Caucasian		5.01 x 10 ⁻¹⁸	8.21 x 10 ⁻¹¹	2.76 x 10 ⁻¹⁹	2.35 x 10 ⁻²¹	2.35 x 10 ^{-21**}	3.71 x 10 ⁻²⁶	1.09 x 10 ⁻²⁸
US Hispanic		7.65 x 10 ⁻¹⁸	1.05 x 10 ⁻¹⁰	4.00 x 10 ⁻¹⁹	3.16 x 10 ⁻²¹	3.16 x 10 ^{-21**}	3.09 x 10 ⁻²⁶	2.95 x 10 ⁻²⁹
Native American		3.62 x 10 ⁻¹⁷	2.08 x 10 ⁻¹⁰					
Asian							3.34 x 10 ⁻²⁴	4.69 x 10 ⁻²⁸

* Refer to appropriate User's Manual for additional population information.

** Based on NGM SElect Kit, since loci are common. To be updated after publication of developmental validation in the User's Manual.

Y-STR PCR amplification kits for forensic DNA profiling

Locus guide—loci amplified by kit and the associated dye label.

Locus	Yfiler™ kit	Yfiler™ Plus kit
DYS627		6-FAM
DYS389I	6-FAM	6-FAM
DYS635	NED	6-FAM
DYS389II	6-FAM	6-FAM
DYS576		6-FAM
DYS391	NED	VIC
DYS448	PET	VIC
Y-GATA-H4	PET	VIC
DYS19	VIC	VIC
DYS456	6-FAM	
DYS458	VIC	VIC
DYS460		VIC
DYS518		NED
DYS392	NED	NED
DYS437	PET	
DYS438	PET	NED
DYS390	6-FAM	NED
DYS456		NED
DYS449		TAZ
DYS385 a/b	VIC	TAZ
DYS437		TAZ
DYS570		TAZ
DYS533		SID
DYS387S1 a/b		SID
DYS481		SID
DYS439	NED	SID
DYS393	NED	SID

Y-STR haplotypes may be searched using the Y-STR haplotype reference database (YHRD).
For more information, go to yhrd.org or thermofisher.com/ystr



Our manufacturing facilities are ISO 18385-compliant and deliver high-quality products. We are dedicated to producing products that meet the highest industry standards—so our customers can get the answers they trust.

Find out more at thermofisher.com/hid