

Oligonucleotides for Forensic Studies

Identity tests, as performed in the fields of paternity and forensics, rely on the detection of genetic differences among individuals. At present, highly polymorphic loci whose alleles are the result of VNTR (Variable number of tandemly repeated sequences) are the most informative genetic markers for genetic characterization. Several loci of VNTR sequences suitable for forensic purposes have been identified and the distribution of alleles of these VNTR loci has been studied on different populations. The primers presented herein are applied for VNTR sequence amplification. The analysis of frequency distribution of alleles has greatly broadened the possibilities of modern forensics.

apoB VNTR Locus Primers :

Cat. No.	Primer Sequence (5' to 3')	Amplified Product Size Range (bp)
105279	ATG GAA ACG GAG AAA TTA TG } CCT TCT CAC TTG GCA AAT AC }	570-900

Reference : Boerwinkle, E et al, Proc. Natl. Acad. Sci. USA, 86, 212-216, 1989

Col2A 1 gene VNTR Locus Primers :

Cat. No.	Primer Sequence (5' to 3')	Amplified Product Size Range (bp)
105280	CCA GGT TAA GGT TGA CAG CT } GTC ATG AAC TAG CTC TGG TG }	584-779

These primers amplify an AT-rich VNTR in the 3'-flanking region of the human Type II collagen gene.

Reference : Wu, S., et al, Nucl. Acids Res. 18, 3102, 1990

D17S30 VNTR Locus Primers:

Cat. No.	Primer Sequence (5' to 3')	Amplified Product Size Range (bp)
105281	AAA CTG CAG AGA GAA AGG TCG AAG AGT GAA GTG AAA GGA TCC CCC ACA TCC GCT CCC CAA GTT	168-1040

Reference : Wolff. R.K. et al, Genomics 3. 347-351, 1988.

DIS80 VNTR Locus Primers :

Cat. No.	Primer Sequence (5' to 3')	Amplified Product Size Range (bp)
105282	GAA ACT GGC CTC CAA ACA CTG CCC GCC G GTC TTG TTG GAG ATG CAC GTG CCC CTT GC	428-776

Reference : Budowle B., et al, Am. Journal of Human Genet, 48, 137-144, 1991.

I_g - J_H VNTR Locus Primers :

Cat. No.	Primer Sequence (5' to 3')	Amplified Product Size Range(bp)
105283	GGG CCC TGT CTC AGC TGG GGA TGG CCT GGC TGC CCT GAG CAG	470-920

Reference : Decorte R., et al., DNA and Cell Biology 9, 461-468, 1990.

Ordering Information:

Catalogue Number	Product	Pack Size
OLIGONUCLEOTIDES FOR FORENSIC STUDIES		
105279	apoB.VNTR Locus Primers: 6.6 µg (0.2 OD)/vial	1 Set
105280	Col2A 1 VNTR Locus Primers: 6.6 µg (0.2 OD)/vial	1 Set
105281	D17S30 VNTR Locus Primers: 6.6 µg (0.2 OD)/vial	1 Set
105282	D1S80 VNTR Locus Primers: 6.6 µg (0.2 OD)/vial	1 Set
105283	I _g -J _H VNTR Locus Primers: 6.6 µg (0.2 OD)/vial	1 Set

Each Primer is supplied as Lyophilized form.

Note:

These oligos are for research purpose and *in vitro* use only. These products are not tested for use in diagnosis or drug development nor are they suitable for administration to humans or animals.