Dinucleotide repeat polymorphism at the int-2 proto-oncogene locus (INT2)

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Source/Description: The polymorphic $(TG)_n$ repeat begins at the 10313 base pair of the human int-2 proto-oncogene locus on chromosome 11q13 (1). The polymorphism can be typed using the polymerase chain reaction (PCR) as described previously (2). The predicted length of the amplified sequence was 167 bp.

Primer Sequences: TTTCTGGGTGTGTCTGAAT (TG strand); ACACAGTTGCTCTAAAGGGT (AC strand).

Frequency: Estimated from 52 chromosomes of unrelated individuals. Heterozygosity = 84.6%.

Allele (bp)	Frequency	Allele (bp)	Frequency
A1 177	0.04	A6 167	0.17
A2 175	0.27	A7 165	0.25
A3 173	0.09	A8 163	0.04
A4 171	0.06	A9 161	0.02
A5 169	0.06		

Mendelian Inheritance: Co-dominant segregation was observed in two informative families.

Chromosomal Localization: Int-2 gene has been assigned to chromosome 11q13 (1).

Othe Comments: The PCR reaction was performed on 80 ng of genomic DNA using 100 pmoles of each oligonucleotide primer. The samples were processed as described (3) except that the denaturation cycle at 94°C was extended to 1.4 minutes. The dinucleotide repeat was based on a $(TG)_5TC(TG)_{16}$ sequence.

References: 1) Brookes,S. *et al.* (1989) *Oncogene* **4**, 429–436. 2) Weber,J.L. and May,P.E. (1989) *Am. J. Hum. Genet.* **44**, 388–396. 3) Weber,J.L. *et al.* (1990) *Nucl. Acids Res.* **18**, 4637.

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Trinucleotide repeat polymorphism at the human pancreatic phospholipase A-2 gene (PLA2)

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Source/Description: The polymorphic $(TTA)_n$ repeat begins at the 1657 base pair of the human pancreatic phospholipase A-2 (PLA-2) locus on chromosome 12 (1). The polymorphism can be typed using the polymerase chain reaction (PCR) as dewcribed previously (2). The predicted length of the amplified sequence was 119 bp.

Primer Sequences: CTAGGTTGTAAGCTCCATGA (TTA strand); TTGAGCACTTACTCTGTGCC (AAT strand).

Frequency: Estimated from 56 chromosomes of unrelated individuals. Heterozygosity = 73.3%.

Allele (bp)	Frequency	Allele (bp)	Frequency
A1 137	0.13	A4 128	0.08
A2 134	0.20	A5 125	0.08
A3 131	0.17	A6 122	0.33

Mendelian Inheritance: Co-dominant segregation was observed in two informative families.

Chromosomal Localization: PLA-2 gene has been assigned to chromosome 12 (3).

Other Comments: The PCR reaction was performed on 80 ng of genomic DNA using 100 pmoles of each oligonucleotide primer. The samples were processed as described (4) except that the denaturation cycle at 94°C was extended to 1.4 minutes. The dinucleotide repeat was based on a $(TTA)_{16}$ sequence.

References: 1) Seilhamer,J.J. *et al.* (1986) *DNA* **5**, 519–527. 2) Weber,J.L. and May,P.E. (1989) *Am. J. Hum. Genet.* **44**, 388–396. 3) Seilhamer,J.J. *et al.* (1989) *J. Cell Biochem.* **39**, 327–337. 4) Weber,J.L. *et al.* (1990) *Nucl. Acids Res.* **18**, 4637.

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