A new *TaqI* polymorphism detected by the cDNA encoding amyloid beta protein of Alzheimer's disease

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SOURCE / DESCRIPTION : A 0.8 kb cDNA insert of the human amyloid beta protein precursor (1).

POLYMORPHISM : *TaqI* identifies a two allele polymorphism with a band at either 1.35 kb (A1) or 0.84 and 0.51 kb (A2), and invariant bands at 2.3 kb, 2 kb, 1.75 kb, 1.4 kb, 0.95 kb and 0.55 kb.

FREQUENCY : Studied in 25 Italian individuals.

1.35 kb allele (A1) 0.96

0.84-0.51 kb allele (A2) 0.04.

NOT POLYMORPHIC FOR : *EcoRI*, *MspI*, *BglII* and *PvuII*.

CHROMOSOMAL LOCALIZATION : Human amyloid beta protein gene was localized to 21q21 by means of *in situ* hybridization (2).

MENDELIAN INHERITANCE : Co-dominant segregation observed in one family (15 individuals).

PROBE AVAILABILITY : Requests for probe to N.K.R. at above adress.

OTHER COMMENTS : This probe also detects *EcoRI* (3), *PvuII* (4) and *HindIII* (5) polymorphisms.

REFERENCES : (1) Robakis *et al.* (1987) PNAS **84**, 4190 - 4194. (2) Robakis *et al.* (1987) Lancet **i**, 384-385. (3) Tanzi *et al.* (1987) Science **235**, 880-884. (4) Goldgaber *et al.* (1987) Science **235**, 877-880. (5) Sasaki *et al.* (1987) NAR **15**, 6309.

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