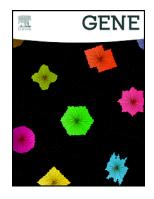
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PURA, the gene encoding Pur-alpha, member of an ancient nucleic acid-binding protein family with mammalian neurological functions



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ACCEPTED MANUSCRIPT

PURA, the Gene Encoding Pur-alpha, Member of an Ancient Nucleic Acidbinding Protein Family with Mammalian Neurological Functions

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Key words: Pura (Pur-alpha), Purb, Pur-beta, Purg, Pur-gamma-A and Pur-gamma-B, AIDS, myelodysplastic syndrome, acute myelogenous leukemia, AML, progressive multifocal leukoencephalopathy, PML, polyomavirus JC, JCV, fragile X syndrome, FXS, FMR1, amyotrophic lateral sclerosis, ALS, *C9ORF72*, dementia

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Abstract

The *PURA* gene encodes Pur-alpha, a 322 amino acid protein with repeated nucleic acid binding domains that are highly conserved from bacteria through humans. *PUR* genes with a single copy of this domain have been detected so far

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