

The structure of the expressible VH gene from a hybridoma producing monoclonal antibodies against porcine transferrin

D.N.Urakov, S.M.Deev and O.L.Polyanovsky

Engelhardt Institute of Molecular Biology, The USSR Academy of Sciences, Moscow, USSR

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PTF.02 hybridoma (k,γ1) was obtained by fusion of P3-X63-Ag8.653 myeloma cells with spleen lymphocytes of line Balb/c mice hyperimmunised with porcine transferrin (1). The VH gene expressed in this hybridoma (VHTF) was cloned in the EMBL4 vector, and the structure of its coding region was determined. VHTF belongs to the family 36-60 (2) since it has more than 83% homology with the known VH genes of this family (3). Its 5'-region resides in the 1.0kb EcoRI fragment, which differs from other embryonal genes of the family 36-60 (3). This fact as well as a high number of substitutions in the VH exon (11-17%), in contrast to other VH genes of the family 36-60, allows one to conclude that the VHTF gene is an unknown before representative of this family.

Genetic code table showing DNA sequence and amino acid translation. The sequence is: GAATCTGTATGAAAGTTATCCCAAAAGGAAAAAGAAAGTCATGTAACCTCAAGTTACTGCAATGCATATAGCTCATGACTCTTTACTGGYAAAGATA... and the amino acid sequence is: M K V L S L L L Y L L T A I P G... The sequence ends at position 1101.

REFERENCES

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