

A TaqI RFLP at the gas-2 locusMario P.Colombo, P.Baracetti, G.Cairo¹, C.Schneider² and G.Parmiani

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SOURCE/DESCRIPTION

A family of G₀-specific genes whose expression is negatively regulated by serum and growth factor has been called gas (growth-arrest-specific genes)¹. A fragment of 1.1 Kb of gas-2 cDNA cloned in a Eco RI site of Blue script vector was used as probe.

POLYMORPHISM

After digestion of cellular DNA with Taq I a band was observed at 6.2 Kb for allele 1 and at 7.3 Kb for allele 2.

FREQUENCY

Allele 1 was found in the BALB/c mouse strain. Allele 2 was found in C57BL/6, DBA/2 and C3H mouse strains.

NOT POLYMORPHIC FOR

Eco RI, Hind III.

CHROMOSOMAL LOCALIZATION

Unknown. The distribution pattern in CxB recombinant inbred strains was CBCCBB which is identical to that reported for the minor histocompatibility locus H-16 on chromosome 4².

MENDELIAN INHERITANCE

Segregation of the allele 1 and 2 bands were followed among the CxB RI strains.

PROBE AVAILABILITY

Probe is available upon request to Dr. Claudio Schneider (Trieste, Italy).

REFERENCES

- 1) Schneider C. et al. Cell (1988) 54: 787-793.
- 2) Bailey D.W. In "The mouse in biomedical research", H.L. Foster, J.D. Small, J.G. Fox eds., Academic Press (1981), p. 223-240.

