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Sequence of human enteric adenovirus type 41 Tak fiber protein gene

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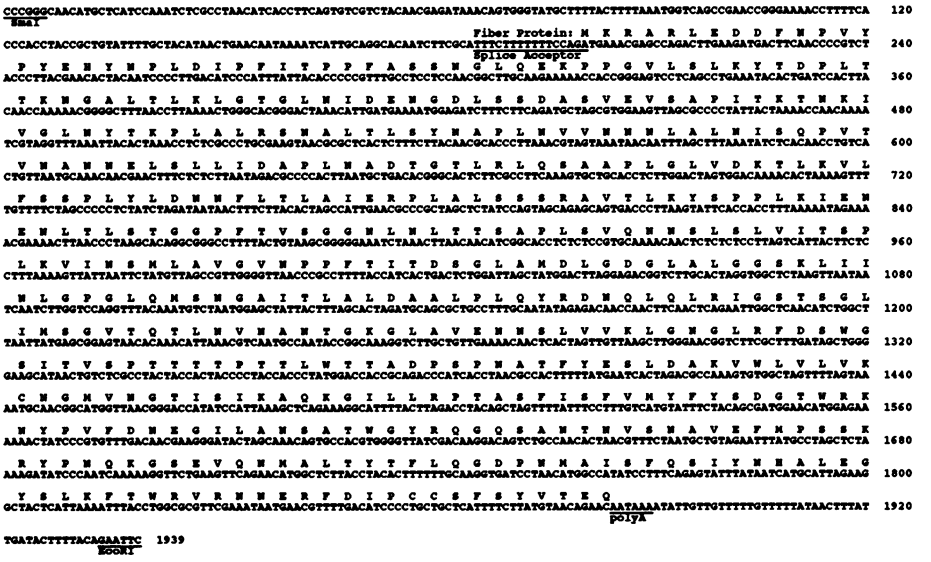
The 1.9 kb SmaI-EcoRI DNA fragment (map position 86.4% to 92%) of the human enteric adenovirus type 41 strain Tak(1) was cloned in pBluescriptII and sequenced directly using custom oligonucleotide primers. The gene coding for the fiber protein (protein IV) was identified using the sequence of Ad5 fiber protein gene as reference(2). Ad41 fiber shows high degree of homology with Ad40 fiber(3) except for the shaft region. As found for Ad2(4) and Ad5(2), Ad41 fiber protein gene shaft contains 22 typical amino acid repeats, whereas Ad40 has only 21 such repeats(3); there is 97.7% homology between the amino acid sequences of Ad41 and Ad40 in the knob region.



Ad41 fiber protein gene. The putative fiber mRNA splice and polyadenylation sites are underlined.

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