

Fusion Protein of the Paramyxovirus-Simian Virus 5: Nucleotide

(parainfluenza virus/cDNA molecular cloning/membrane protein/cell fusion)

BamHI DdeI PstI PstI

gion contains a stretch of poly(A) for 37 nucleotides

AAATGTTATCCAGATTAGAGAGCTTAATTAGCTCTGTATTATAATAACACTACTATTCCAATAACTGGAATCACCACCTTGATTATCTCCAAATGATTCAGAGAAAAA

CAAATCATATTAGACTATCTCT
-1. .1 .30 .50 .70
AAGCAGCAACCATATCTCTCTCAATC ATG GGT ACT ATA ATT CAA TTT CTG GTG GTC TCC TGT CTA TTG GCA GGA GCA GGC AGC CTT

N terminus Met-Gly-Thr-Ile-Ile-Gln-Phe-Leu-Val-Val-Ser-Cys-Leu-Leu-Ala-Gly-Ala-Gly-Ser-Leu (20)

.90 .110 .130 .150 .170 .190
GAT CCA GCA GCC CTC ATG CAA ATC GGT GTG ATT CCA ACA AAT GTC CCG CAA CTT ATG TAT TAT ACT GAG GCC TCA TCA GCA TTC ATT GTT GTG AAG TTA ATG CCT

Asp-Pro-Ala-Ala-Leu-Met-Gln-Ile-Gly-Val-Ile-Pro-Thr-Asn-Val-Arg-Gln-Leu-Met-Tyr-Tyr-Thr-Glu-Ala-Ser-Ser-Ala-Phe-Ile-Val-Val-Lys-Leu-Met-Pro (55)

.210 .230 .250 .270 .290
ACA ATT GAC TCG CCG ATT AGT GGA TGT AAT ATA ACA TCA ATT TCA AGC TAT AAT GCA ACA GTG ACA AAA CTC CTA CAG CCG ATC GGT GAG AAT TTG GAG ACG ATT

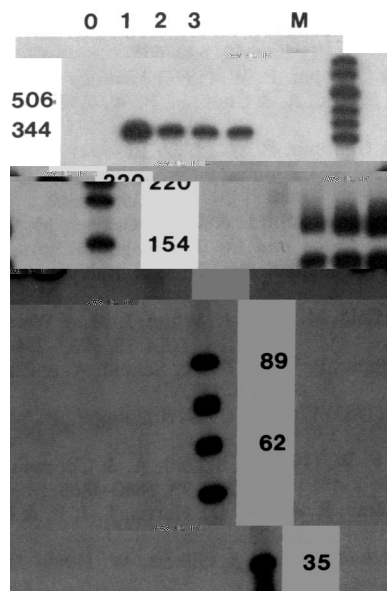


FIG. 3. Nuclease S1 analysis to determine the 5' end of the F

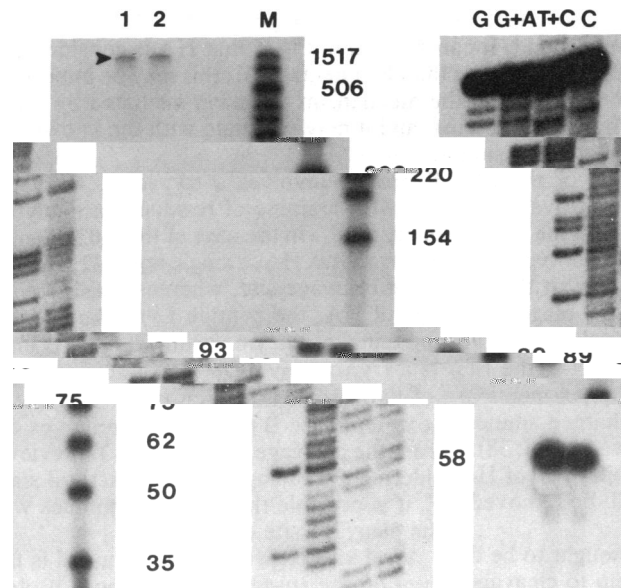


FIG. 4. Primer extension and sequence analysis of the SV5 F

mRNA. A *Pst* I/*Hpa* II fragment (nucleotides -181 to +136) 5' la-

mRNA. An *Rsa* I/*Sau*3AI DNA fragment derived from clone Fc

protein level, only scattered matches of 2-4 amino acids

4. Scheid, A., Caligiuri, I. A., Compans, R. W., & Choppin

less hydrophobic than F at neutral pH; this may be important

5. Scheid, A. & Choppin, P. W. (1974) *Virology* 57, 475-490.

with respect to the mechanism of fusion mediated by these

6. Merz, D. C., Scheid, A. & Choppin, P. W. (1980) *J. Exp. Med.*