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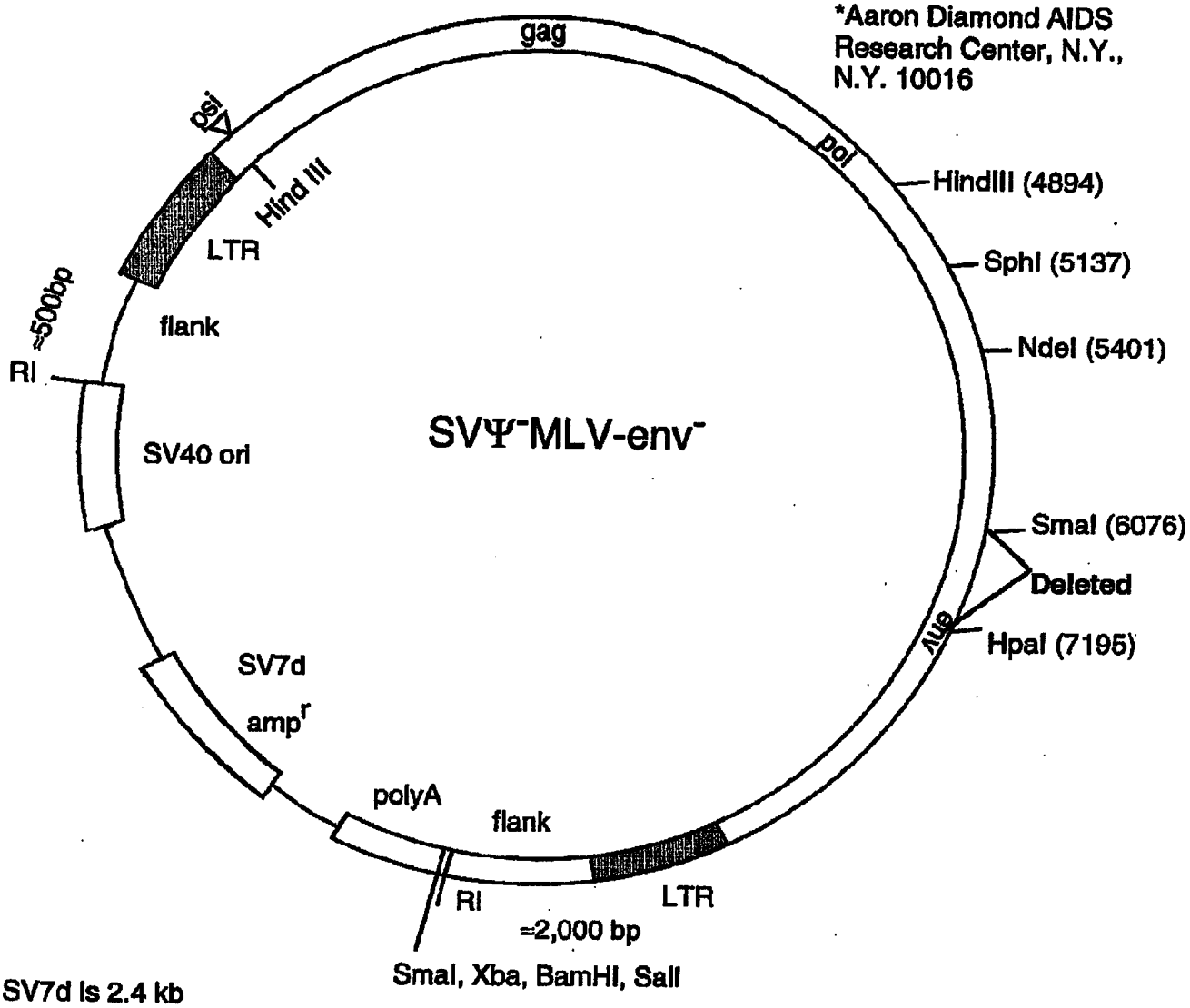

SV7d is 2.4 kb
insert is = 14 kb

This plasmid is used to produce MLV retroviral vectors using the method of Landau and Littman (J. Virol. (1992) 66:5110-5113). In the original method, COS cells were transfected with this plasmid and with amphotropic MLV env vector. However, virus titers can be significantly increased by transfecting 293 cells instead of COS and with VSV-G expression vector instead of A-MLV.

The plasmid is psi-Moloney Murine Leukemia virus DNA (from Richard Mann) cloned into the SV40 expression vector pSV7d at the EcoRI site. Restriction sites in the MLV sequence can be found by in the Appendix to Volume 2 of the Cold Spring Harbor RNA Tumor Virus Book. Restriction sites in pSV7d can be found in the accompanying map. Unfortunately, the mouse flanking sequence present on either side of the provirus is not sequenced and therefore must always be tested by cleaving with any enzymes you want to use that have not been previously tested. A deletion has been made in env form the indicated SmaI to HpaI sites.