A new polymorphic probe on chromosome 3p: λLIB36-68 (D3S615)
L.Geil1, F.Latif, M.Yao, M.L.Orcutt, B.Zbar and M.I.Lerman*
Laboratory of Immunobiology, National Cancer Institute, and 1Biological Carcinogenesis and Development Program, Program Resources Inc., DynCorp, Frederick Cancer Research and Development Center, Frederick, MD 21701, USA

Source/Description: λLIB36–68 is a 3.8 kb EcoRI fragment isolated from a Charon 21A human chromosome 3 library (1).
Polymorphism: Dral digestion of genomic DNA and hybridization with the probe detects a two-allele polymorphism: 1.8 kb (A1) and 1.5 kb (A2).
Frequency: Estimated from 120 unrelated Caucasians
A1:0.82
A2:0.18
Frequency of Heterozygosity: 0.30.
Not Polymorphic For: BamHI, BglIII, DraI, EcoRI, HindIII, HinfI, MspI, PvuII and TaqI.
Chromosomal Localization: Using a somatic cell hybrid panel (2) which was based on linkage groups anchored to physically localized markers, the probe was assigned to the short arm of chromosome 3 between 3p21-p25.
Mendelian Inheritance: Mendelian inheritance has been demonstrated in a two generation von Hippel-Lindau disease (VHL) family.
Probe Availability: Available for collaboration.
Acknowledgements: This project has been funded at least in part with Federal funds from the Department of Health and Human Services under contract number N01-C0-74102.