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Department of Biotechnology
Ministry of Science & Technology
Govt. of India**

Technology Offer

A multiple format HIV-2 derived lentiviral vector for expanded utility in gene transfer

Using an HIV-2 sub type-A isolate from India (*AIDS Res Human Retroviruses 2008; 24:1315-1317*) a third generation lentiviral vector was developed with a novel multiple cloning site (MCS) that can also facilitate single step sub-cloning of a PCR amplified transgene cassette by T/A cloning strategy apart from useful cohesive/blunt end cloning (*Biochem Biophys Res Commun 2008; 371:546-550*). Multiple configurations of the base vector are also made now including vectors having different selection markers (*neo/puro/hygro*), blue/white color screening feature, MCS with default cellular promoter, additional MCS (in downstream LTR), drug inducible transgene expression , transgene excision option and a vector with reduced backbone length. All the vector forms were functionally evaluated with transduction of target cells *in vitro* and some configurations also tested *in vivo*.

The Department is seeking proposals for technology transfer on non-exclusive basis for the above-mentioned lentiviral vector. Interested parties may apply within 15 days to S Sinha, Adviser, Department of Biotechnology, Ministry of Science & Technology, Block-2, 8th Floor, C.G.O Complex, Lodhi Road, New Delhi – 110 003. Phone: 011-24363760. Email: ssinha.dbt@gmail.com