Construction of retroviral vectors

pMFGneo (the same with pU8neo)

The retrovirus expression cassette was cut out from the pMFG vector (Ref. Dranoff et al. PNAS 1993; Wakimoto et al., Cancer Res. 1996) by HindIII/EcoRI digestion, and subcloned into the HindIII/EcoRI sites of the pUC8 plasmid, resulting in pU8(MFG) retroviral expression plasmids. The EcoRI site at the end of the 3’ flanking genomic DNA was exchanged with a SalI site by blunting the EcoRI-digested end followed by a SalI linker d(pGGTCGACC) ligation, resulting in the pU8(MFG)s retroviral expression plasmids. The Ncol/BamHI fragment from the pPGKneo plasmid (Ref. Wakimoto et al., Cancer Res. 1996; Wakimoto et al. JJCR 1997), which contains the whole coding region for the neo-resistant gene, was subcloned into the Ncol/BamHI sites of the pU8(MFG)s retroviral expression plasmid, resulting in the plasmid, pMFGneo (the same with pU8neo).

pRx-nZiresNeo

The pRx-nZ, and pRx-nZiresNeo (abbreviated as pRx-nZiN) plasmids for recombinant retrovirus vectors are described previously (Wakimoto et al., JJCR 1997).

References:
