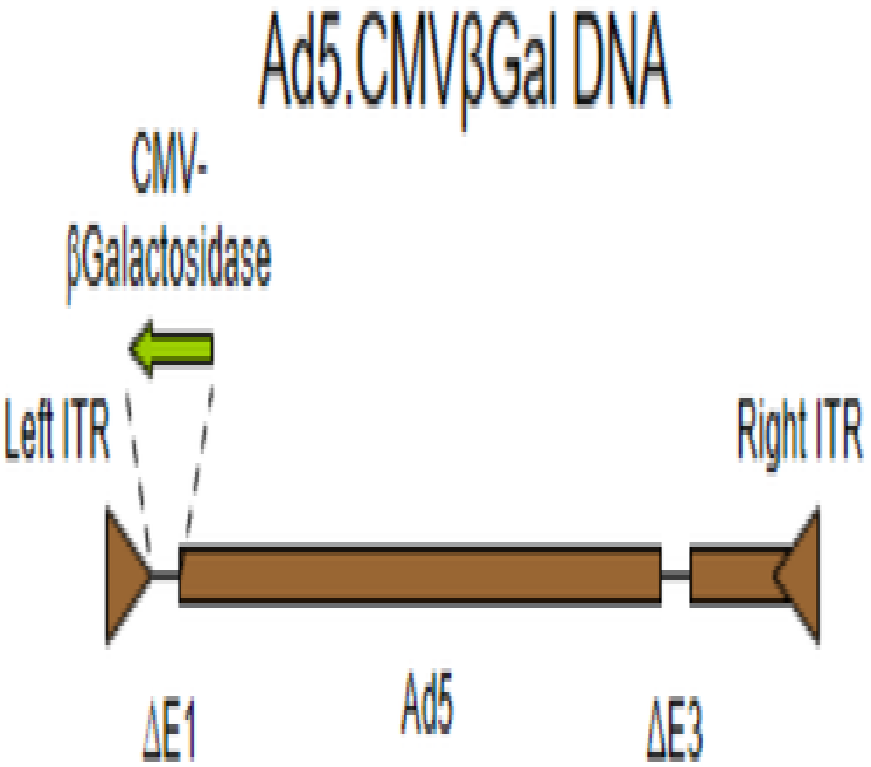
O.D.260 Inc
BETTER TOOLS, BETTER SCIENCE

Ad5.CMV-?Gal DNA

Ad5.CMV?Gal DNA is the plasmid-isolated genome of an Ad5-based adenovirus containing a 4.3 kb-long LacZ expression cassette in place of the E1 region, oriented from right to left relative to the adenovirus genome. The *E. coli* ?-galactosidase coding sequence is fused to a SV40 nuclear localization signal (GPKKKRKVGS) and is under the control of a human cytomegalovirus (CMV) promoter and a mouse protamine 1 polyadenylation signal. Both E1 (3.1 kb) and E3 (2.7 kb) regions are deleted. The two *Sfi*I sites naturally present in WT Ad5 DNA were mutated by substituting A for G and C at positions 16291 and 16294 in the Ad5 genome, and C and G for respectively G and C at positions 23001 and 23004 in the Ad5 genome, introducing silent mutations in the adenovirus pVII and DNA-binding protein coding sequences.

Ad5.CMV?gal DNA can be used as a control to monitor the efficiency of transfection and virus recovery. It will generate a nuclear-targeted ? galactosidase-expressing adenovirus that might be useful in your future experiments. Sufficient DNA is provided for 5 transfections.



Info Sheet	Sequence
Product_Informa...A_#ZC-01.pdf (139.4 KB)	Ad5CMVbGal_DNA_#ZC-01.txt (33.7 KB)