



Plasmids pBAGH, pBAGH.Sv

These plasmids both carry a human β -actin promoter and a polyA site from the human growth hormone (hGH) gene. A BamHI cloning site is provided. Expression of these plasmids should yield transcripts which contain about 80 nt of the β -actin first exon and about 100 nt of the hGH 3' end.

The sequence of the transcribed portions of the β -actin promoter and hGH polyA site fragments can be found in GenBank (accession numbers Y00474 and J00148 respectively). The β -actin promoter sequences (of both plasmids) were derived from a plasmid containing an IVS1-containing version of this promoter. The hGH segment (of both plasmids) and the SV40 sequences (of pBAGH.Sv) were derived from pLEN. The vector sequence of is pBR322-derived; the vector of pBAGH.Sv is pUC8.

Besides the sites indicated in the plasmid maps, some additional restriction site information is indicated below:

Restriction Enzyme	in pBAGH	in pBAGH.Sv
Afl II	none	none
Bgl II	none	none
Bst EII	1 (promoter fragment?)	unknown
Nco I	none	unknown
Nde I	none	1 (unknown location)
Xba I	none	unknown
Rsr II	none	unknown
Sma I	1 (unknown)	unknown
Xho I	1 (promoter fragment)	1 (promoter fragment)
Kpn I	none	1 (SV40 fragment)
Not I	1 (promoter fragment)	1 (promoter fragment)

Additional restriction site information is most welcome and will be credited accordingly.

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- References: Huh and Hynes (1993) Mol. Cell. Biol. 13: 5301-5314.
Leavitt et al. (1984) Mol. Cell. Biol. 4: 1961-1969. (β -actin promoter)
Neufeld et al. (1988) J. Cell Biol. 106: 1385-1394. (pLEN)