

### Information on the 70KB PB BAC

The 70KB PB transposon BAC was manipulated from the human BAC RP11-674P04. The blasticidin selection marker (EM7 driven) together with PB 5' inverted terminal repeats (PB5'ITR) was introduced into the position on the BAC 10 kb upstream of the start codon of the human *hprt* locus via recombineering. Similarly, the floxed neomycin resistant cassette together with PB 3' inverted terminal repeat (PB3'ITR) was introduced 20kb downstream of the stop codon of the *hprt* gene. The Neomycin cassette provides the kanamycin resistance in *E coli*, and Neomycin resistance in eukaryotic cells.

