

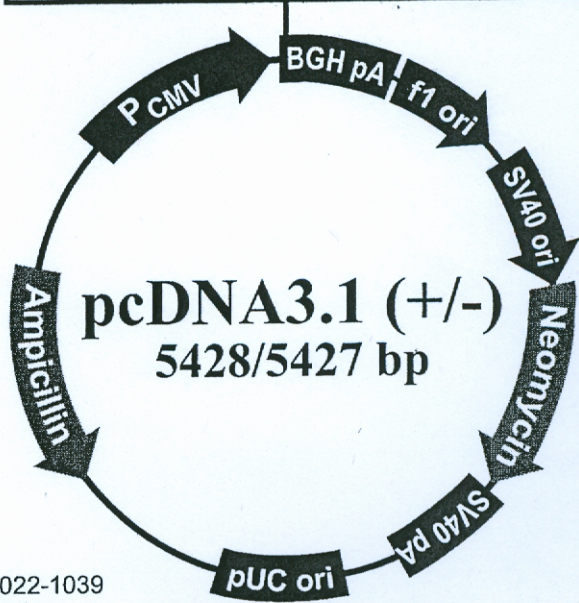
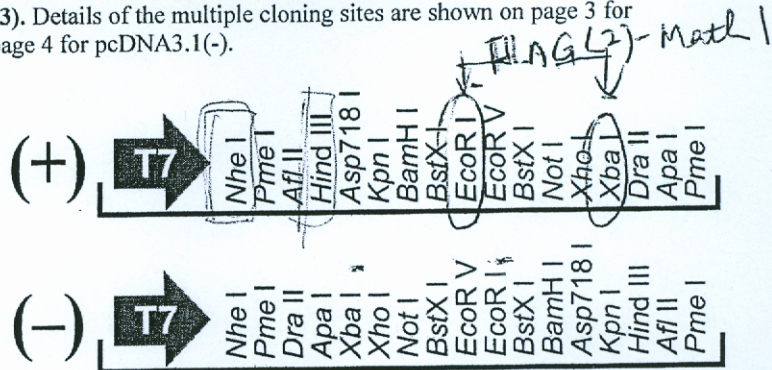
# Appendix

## pcDNA3.1 Vectors

### Map of pcDNA3.1(+) and pcDNA3.1(-)

The figure below summarizes the features of the pcDNA3.1(+) and pcDNA3.1(-) vectors. The complete sequences for pcDNA3.1(+) and pcDNA3.1(-) are available for downloading from our World Wide Web site ([www.invitrogen.com](http://www.invitrogen.com)) or from Technical Service (see page 13). Details of the multiple cloning sites are shown on page 3 for pcDNA3.1(+) and page 4 for pcDNA3.1(-).

pcMV - Math 1  
 pcMV - FLAG (x2) - Math 1



### Comments for pcDNA3.1 (+)

5428 nucleotides

- CMV promoter: bases 232-819
- T7 promoter/priming site: bases 863-882
- Multiple cloning site: bases 895-1010
- pcDNA3.1/BGH reverse priming site: bases 1022-1039
- BGH polyadenylation sequence: bases 1028-1252
- f1 origin: bases 1298-1726
- SV40 early promoter and origin: bases 1731-2074
- Neomycin resistance gene (ORF): bases 2136-2930
- SV40 early polyadenylation signal: bases 3104-3234
- pUC origin: bases 3617-4287 (complementary strand)
- Ampicillin resistance gene (*bla*): bases 4432-5428 (complementary strand)
- ORF: bases 4432-5292 (complementary strand)
- Ribosome binding site: bases 5300-5304 (complementary strand)
- bla* promoter (P3): bases 5327-5333 (complementary strand)

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