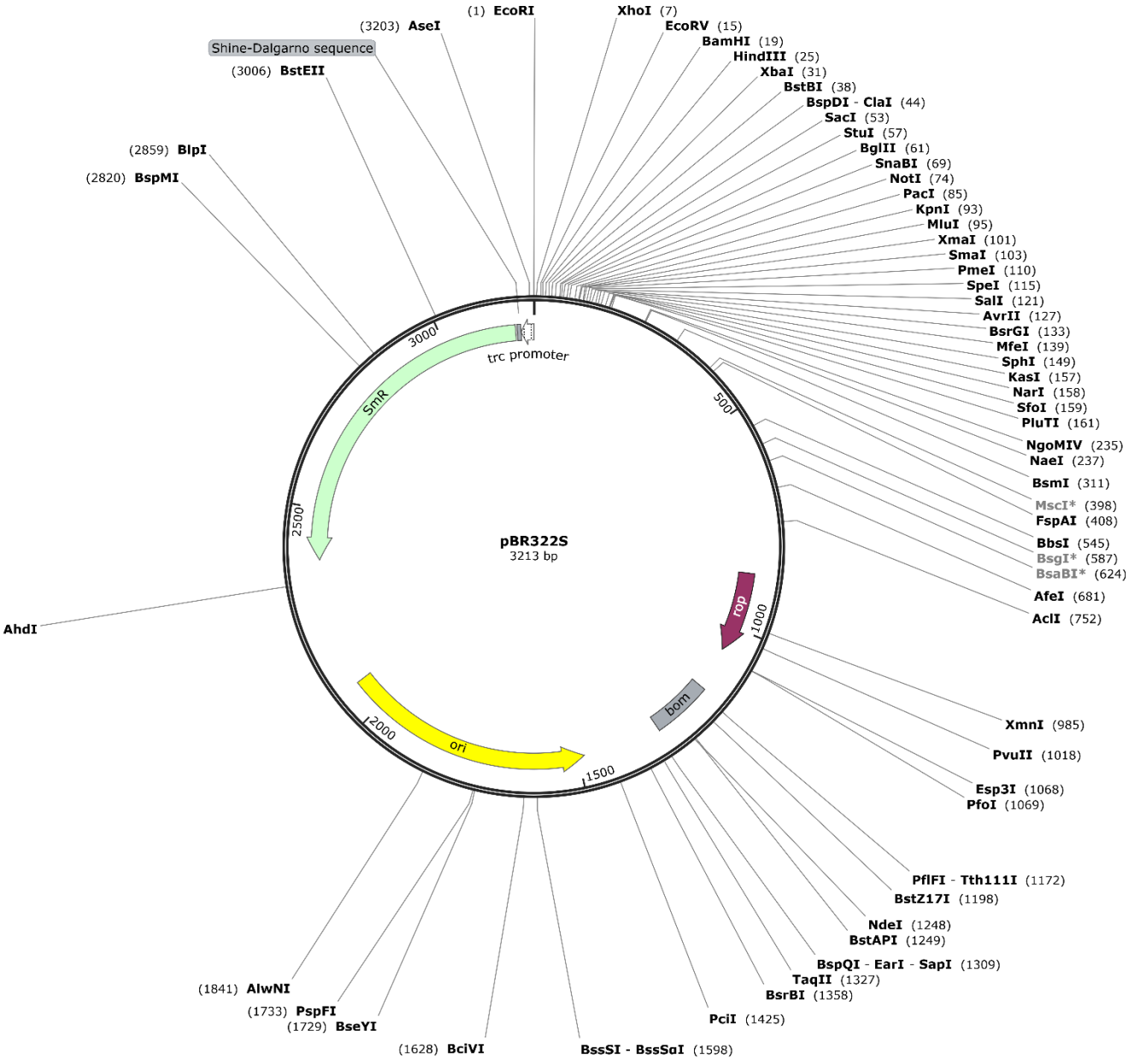
**Vector**: **pBR322S (**fully sequenced)

**Antibiotics**: Spectinomycin

**Creator(s):** Yuting Liang, Molecular Oncology Lab of The University of Chicago Medical Center

**Date of Construction**: July 2025



## **pBR322S Full Sequence** (fully sequenced)

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## Zero Cutters in pBR322S

| Enzyme | Cuts | Recognition Sequence |
|---|---|---|
| AatII | 0 | GACGTC |
| AflII | 0 | CTTAAG |
| AgeI | 0 | ACCGGT |
| AleI | 0 | CACNNNNGTG |
| ApaI | 0 | GGGCCC |
| AscI | 0 | GGCGCGCC |
| AsiSI | 0 | GCGATCGC |
| BaeI | 0 | (N)5(N)10ACNNNNGTAYC(N)7(N)5 |
| BbvCI | 0 | CCTCAGC |
| BmgBI | 0 | CACGTC |
| BmtI | 0 | GCTAGC |
| BsaI | 0 | GGTCTCNNNNN |

| | | |
|---|---|---|
| BsaXI | 0 | NNN(N)9AC(N)5CTCC(N)7NNN |
| BseRI | 0 | GAGGAG(N)8NN |
| BsiWI | 0 | CGTACG |
| BssHII | 0 | GCGCGC |
| BstXI | 0 | CCANNNNNNTGG |
| Bsu36I | 0 | CCTNAGG |
| BtsI | 0 | GCAGTGNN |
| CspCI | 0 | NN(N)11CAA(N)5GTGG(N)10NN |
| EcoNI | 0 | CCTNNNNNAGG |
| FseI | 0 | GGCCGGCC |
| HpaI | 0 | GTTAAC |
| I-CeuI | 0 | TAACTATAACGGTCCTAAGGTAGCGAA |
| I-SceI | 0 | TAGGGATAACAGGGTAAT |
| Nb.BbvCI | 0 | CCTCAGC |
| Nb.BtsI | 0 | GCAGTG |
| NcoI | 0 | CCATGG |
| NheI | 0 | GCTAGC |
| NmeAIII | 0 | GCCGAG(N)19NN |
| NruI | 0 | TCGCGA |
| NsiI | 0 | ATGCAT |
| Nt.BbvCI | 0 | CCTCAGC |
| PaqCI | 0 | CACCTGCNNNNNNNN |
| PI-PspI | 0 | TGGCAAACAGCTATTATGGGTATTATGGGT |
| PI-SceI | 0 | ATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGG |
| PmlI | 0 | CACGTG |
| PshAI | 0 | GACNNNNGTC |
| PsiI | 0 | TTATAA |
| PspOMI | 0 | GGGCCC |
| PstI | 0 | CTGCAG |
| PvuI | 0 | CGATCG |
| RsrII | 0 | CGGWCCG |
| SacII | 0 | CCGCGG |
| SbfI | 0 | CCTGCAGG |
| ScaI | 0 | AGTACT |
| SexAI | 0 | ACCWGGT |
| SfiI | 0 | GGCCNNNNNGGCC |
| SgrAI | 0 | CRCCGGYG |
| SrfI | 0 | GCCCGGGC |
| SspI | 0 | AATATT |
| SwaI | 0 | ATTTAAAT |
| XcmI | 0 | CCANNNNNNNNNTGG |
| ZraI | 0 | GACGTC |