

Vector: pBR322-Linker

Antibiotic Selection: AmpR (TcR destroyed)

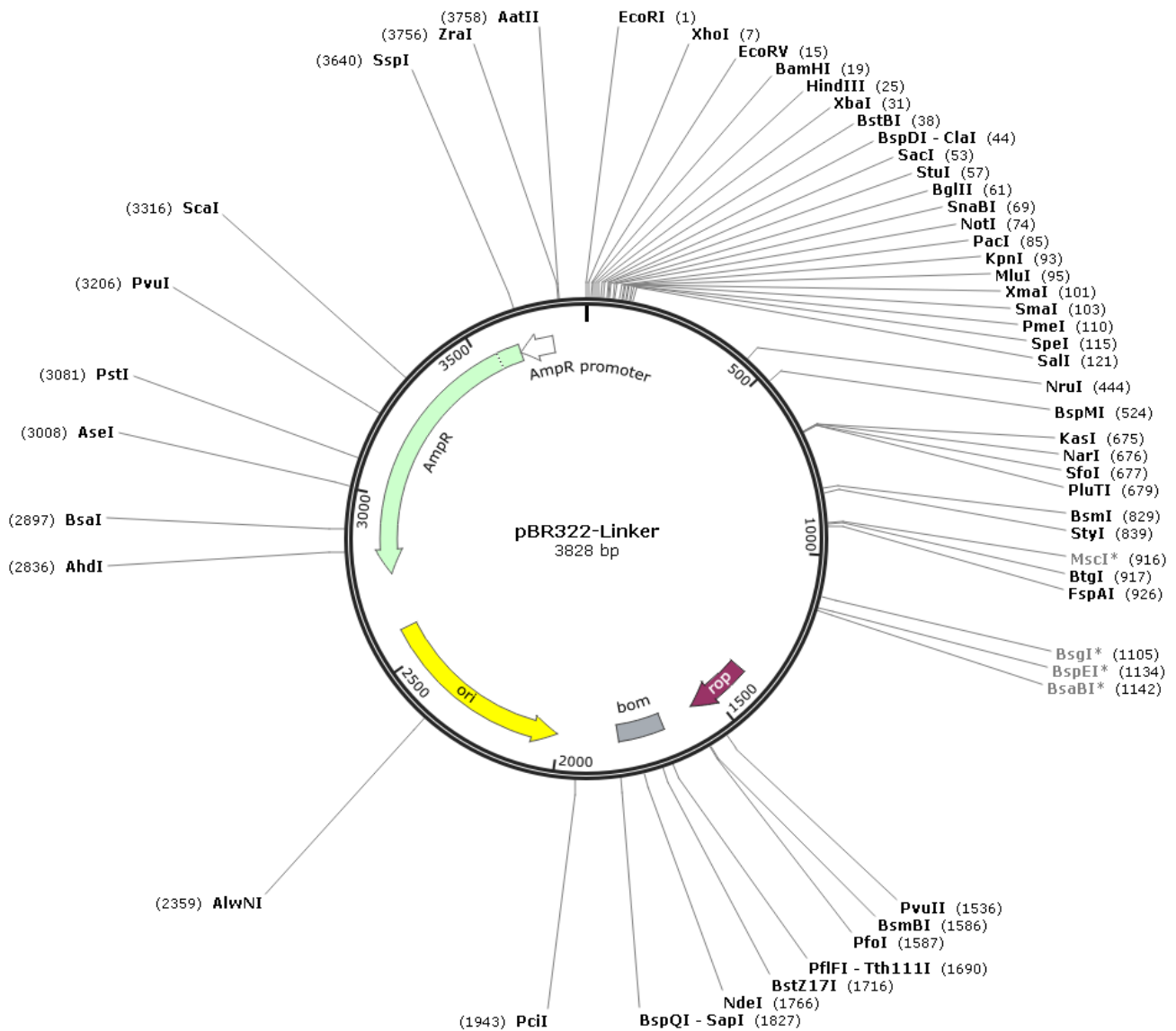
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Date of Construction: October, 2017

TCH4448 (pBR322 End Fwd, upstream EcoRI): CCTATAAAAATAGGCGTATCACGAGGC

TCH4449 (pBR322 TetR-Mid Rev, downstream Sall): GAAGGAGCTGACTGGGTTGAAGGCTC

TCH4450 (pBR322 AmpR 5'-End Rev): GAATAAGGGCGACACGGAAATGTTG



pBR322-Linker Full-Length Sequence

gAATTCCTCGAGGATATCGGATCCAAGCTTTCTAGATTCGAAATCGATGAGCTCAGGCCTAGATCTTACGTAGCG
GCCGCTTAATTAAGGTACCACGCGTCCCAGGGTTTAAACACTAGTGTcgaccgatgcccttgagagccttcaacc
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caa

ZERO CUTTERS

# Enzyme Specificity	22 CspCI NN(N)11CAA(N)5GTGG(N)10NN
1 AflIII CTTAAG	23 DraIII CACNNNGTG
2 AgeI ACCGGT	24 EcoNI CCTNNNNNAGG
3 AleI CACNNNGTGT	25 FseI GGCCGGCC
4 ApaI GGGCCC	26 HpaI GTTAAC
5 AscI GGCGCGCC	27 MfeI CAATTG
6 AsiSI GCGATCGC	28 NcoI CCATGG
7 AvrII CCTAGG	29 NheI GCTAGC
8 BaeI	30 NsiI ATGCAT
(N)5(N)10ACNNNGTAYC(N)7(N)5	31 PmlI CACGTG
9 BbvCI CCTCAGC	32 PsiI TTATAA
10 BclI TGATCA	33 PspOMI GGGCCC
11 BlpI GCTNAGC	34 RsrII CGGWCCG
12 BmgBI CACGTC	35 SacII CCGCGG
13 BmtI GCTAGC	36 SbfI CCTGCAGG
14 BsaXI NNN(N)9AC(N)5CTCC(N)7NNN	37 SexAI ACCWGGT
15 BseRI GAGGAG(N)8NN	38 SfiI GGCCNNNNNGGCC
16 BsiWI CGTACG	39 SgrAI CRCCGGYG
17 BsrGI TGTACA	40 SphI GCATGC
18 BssHII GCGCGC	41 SrfI GCCCGGGC
19 BstEII GGTNACC	42 SwaI ATTTAAAT
20 BstXI CCANNNNNNNTGG	43 XcmI CCANNNNNNNNNTGG
21 Bsu36I CCTNAGG	

ONE-CUTTERS

#	Enzyme	Specificity	Sites & flanks	Cut positions (blunt - 5' ext. - 3' ext.)
1	AatII	G _↓ ACGT C	list	*3758/3754
2	Acc65I	G _↓ GTAC _↓ C	list	89/93
3	AhdI	GACNN _↓ N NNGTC	list	2836/2835
4	AlwNI	CAG _↓ NNN CTG	list	2359/2356
5	ApoI	R _↓ AATT _↓ Y	list	1/5
6	AseI	AT _↓ TA _↓ AT	list	3008/3010
7	BamHI	G _↓ GATC _↓ C	list	19/23
8	BanII	G _↓ RGCY _↓ C	list	53/49
9	BfuAI	ACCTGCNNNN _↓ NNNN _↓	list	524/528
10	BglII	A _↓ GATC _↓ T	list	61/65
11	BsaBI	GATNN _↓ NNATC	list	*#1142
12	BsaI	GGTCTCN _↓ NNNN _↓	list	2897/2901
13	BsgI	GTGCAG(N) ₁₄ _↓ NN _↓	list	#1105/1103
14	BsmBI	CGTCTCN _↓ NNNN _↓	list	*1586/1590
15	BsmI	GAATG _↓ CN _↓	list	829/827
16	BspDI	AT _↓ CG _↓ AT	list	*44/46
17	BspEI	T _↓ CCGG _↓ A	list	*#1134/1138
18	BspMI	ACCTGCNNNN _↓ NNNN _↓	list	524/528
19	BspQI	GCTCTCN _↓ NNN _↓	list	1827/1830
20	BstBI	TT _↓ CG _↓ AA	list	*38/40
21	BstZ17I	GTA _↓ TAC	list	1716
22	BtgI	C _↓ CRYG _↓ G	list	917/921
23	ClaI	AT _↓ CG _↓ AT	list	*44/46
24	Eco53kI	GAG _↓ CTC	list	51
25	EcoRI	G _↓ AATT _↓ C	list	1/5
26	EcoRV	GAT _↓ ATC	list	15
27	HindIII	A _↓ AGCT _↓ T	list	25/29
28	KasI	G _↓ GCGC _↓ C	list	*675/679
29	KpnI	G _↓ GTAC _↓ C	list	93/89

30	MluI	A C G C G \downarrow T	list	*95/99
31	MscI	T G G \downarrow C C A	list	#916
32	NarI	G G C G \downarrow C C	list	*676/678
33	NdeI	C A T A \downarrow T G	list	1766/1768
34	NotI	G C G G C C \downarrow G C	list	*74/78
35	NruI	T C G \downarrow C G A	list	*444
36	PacI	T T A \downarrow A T T A A	list	85/83
37	Paer7I	C T C G A \downarrow G	list	*7/11
38	PciI	A C A T G \downarrow T	list	1943/1947
39	PflFI	G A C N N \downarrow N G T C	list	1690/1691
40	PluTI	G \downarrow G C G C C	list	*679/675
41	PmeI	G T T T \downarrow A A A C	list	110
42	PshAI	G A C N N \downarrow N N G T C	list	*186
43	PspXI	V C T C G A \downarrow G B	list	*7/11
44	PstI	C \downarrow T G C A G	list	3081/3077
45	PvuI	C G \downarrow A T C G	list	*3206/3204
46	PvuII	C A G \downarrow C T G	list	1536
47	SacI	G \downarrow A G C T C	list	53/49
48	SalI	G T C G A \downarrow C	list	*121/125
49	SapI	G C T C T T C N N N \downarrow	list	1827/1830
50	ScaI	A G T \downarrow A C T	list	3316
51	SfoI	G G C \downarrow G C C	list	*677
52	SmaI	C C C \downarrow G G G	list	*103
53	SnaBI	T A C \downarrow G T A	list	*69
54	SpeI	A C T A G \downarrow T	list	115/119
55	SspI	A A T \downarrow A T T	list	3640
56	StuI	A G G \downarrow C C T	list	57
57	StyI	C C W W G \downarrow G	list	839/843
58	TspMI	C C C G G \downarrow G	list	*101/105
59	Tth111I	G A C N N \downarrow N G T C	list	1690/1691
60	XbaI	T C T A G \downarrow A	list	31/35
61	XhoI	C T C G A \downarrow G	list	*7/11
62	XmaI	C C C G G \downarrow G	list	*101/105
63	ZraI	G A C \downarrow G T C	list	*3756