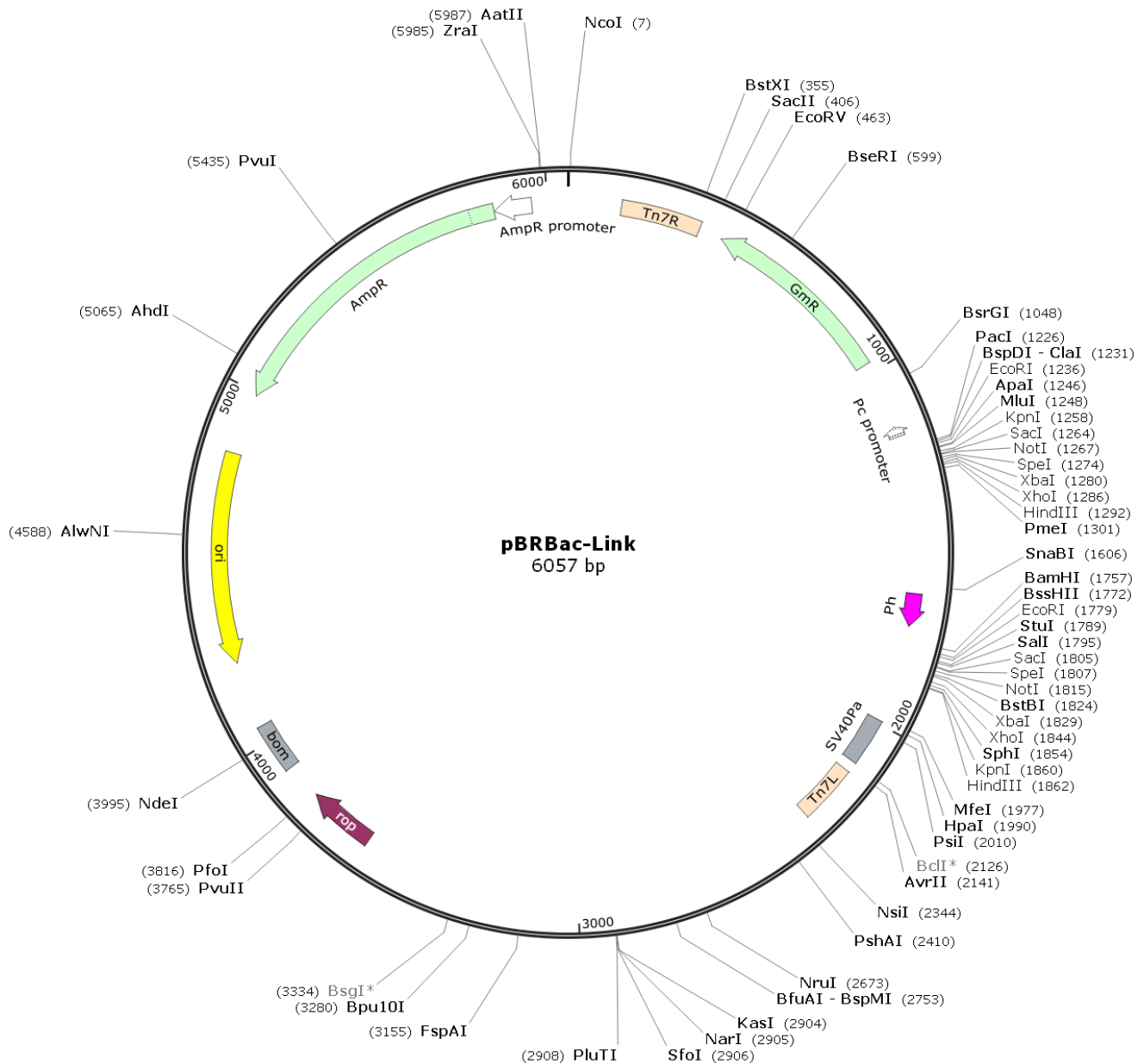


**Vector: pBRBac-Link** (based on pBRBac-Basic)

**Antibiotic Selection:** AmpR and Gentamycin (GmR)

**Creator(s):** Jiamin Zhong @ Molecular Oncology Laboratory of The University of Chicago Medical Center

**Date of Construction:** July 30, 2023



## pBRBac-Link Full-length Sequence and Map

gaattg GCGAGGAAGCGGAAGAGCGCCTGATGCGGTATTTTCTCCTTACGCATCTGTGCGGTATTTACACCCGCAG  
ACCAGCCGCGTAACCTGGCAAAATCGGTTACGGTTGAGTAATAAATGGATGCCCTGCGTAAGCGGG tgtgggcggaataa  
agtcttaaactgaacaaaatagatctaaactatgacaataaagtcttaaactagacagaatagttgtaaactgaaatcagtc  
cagttatgctgtgaaaaagcatactggacttttggttatggctaaagcaaaactcttcattttctgaagtgcaaattgcccgtc  
gtattaaagagggcggtggccaagggcatggtaaagactatattc GCGGCGTGTGACAATTTACCGAACAACCTCCGCGGCC  
GGGAAGCCGATCTCGGCTTGAACGAATGTTAGGTGGCGGTACTTGGGTGCGATATCAAAGTGCATCACTTCTTCCCCTATGC  
CCAAC TTTGTATAGAGAGCCACTGCGGGATCGTCACCGTAATCTGCTTGCACGTAGATCACATAAGCACCAAGCGCGTTGGC  
CTCATGCTTGAGGAGATTGATGAGCGCGGTGGCAATGCCCTGCCCTCCGGTGCTCGCCGGAGACTGCGAGATCATAGATATAG  
ATCTCACTACGCGGCTGCTCAAACCTGGGCAGAACGTAAGCCGCGAGAGCGCCAACAACCGCTTCTTGGTTCGAAGGCAGCAA  
GCGCGATGAATGCTTACTACGGAGCAAGTTCCCAGGTAATCGGAGTCCGGCTGATGTTGGGAGTAGGTGGCTACGTCCTCC  
GAACTCACGACCGAAAAGATCAAGAGCAGCCCGCATGGATTTGACTTGGTCAGGGCCGAGCCTACATGTCCGAATGATGCC  
ATACTT GAGCCACCTAAC TTTGTTTTAGGGCGACTGCCCTGCTGCGTAACATCGTTGCTGCTGCGTAACATCGTTGCTGCTC  
CATAACATCAAACATCGACCCACGGCGTAACGCGCTTGCCTGCTGGATGCCGAGGCATAGACTGTACAAAAAACAGTCAT  
AACAAAGCCATAAAAACCGCCACTGCGCCGTACCACCTGCGTTCGGTCAAGTTCTGGACCAGTTGCGTGAGCGCATAACG  
CTACTTGCATTACAGTTTACGAACCGAACAGGCTTACGTCAACTGGGTTCGTTGCTGCCCTTCATCCGTTTC CACGGTTTAAATTAAa  
tcgatGAATTCgggcccACGCGTggtaccGAGCTCgcgccgcACTAGTtctagaCTCGAGaagcttGTTTAAACggtGTC  
GTCACCCGGCAACCTTGGGCAGCAGCAAGTCGAGGCATTTCTGTCTGGCTGGCGAACGAGCGCAAGGTTTCGGTCTCCAC  
GCATCGTCAGGCATTGGCGGCCCTTGTGTTCTTCTACGGCAAGGTGCTGTGCACGGATCTGCCCTGGCTTCAGGAGATCGGA  
AGACCTCGGCCGTCGCGGGCGCTTGCCGGTGGTGTGACCCCGGATGAAGTGGTTCGCATCCCGGTTTTCTGGAAGGCGAGC  
ATCGTTTTGTTCCGCCAGGACTCTAGCTATAGTTCTAGTGGTTGGCTACGTATACTCCGGAATATTAATAGATCATGGAGATA  
ATTAATAATGATAACCATCTCGCAAATAAATAAGTATTTTACTGTTTTTCGTAACAGTTTTTGTAAATAAAAAAACCTATAAAATAT  
TCCGGATTATTCATAACCGTCCCACCATCGGGCGCGGATCCCGTCCGAAGCGCGGAAATCAAAGGCTACGTCGACGAGC  
TCACTAGTCGCGGCCGCTTTCGAATCTAGAGCCTGCAGTCTCGAGGCATGCGGTACCAAGCTTGTGAGAAAGTACTAGAGGA  
TCATAATCAGCCATACCACATTTGTAGAGGTTTTACTTGTCTTAAAAAACCTCCCACACCTCCCCCTGAACCTGAAACATAA  
AATGAATGCAATTGTTGTTGTTAACTTGTATTATGCAGCTTATAATGGTTACAAATAAAGCAATAGCATCACAAATTTACA  
AATAAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTTGTCCAAACTCATCAATGTATCTTATCATGTCTGGATCTGATCAC  
TGCTTGAGCCTAGGAGATCCG aaccagataaagtgaaatctagttccaaactattttgtcatttttaattttcgtattagctt  
acgacgctacaccagttcccatctattttgtcactcttccctaaataatccttaaaaaactccatttccaccctcccagtt  
cccaactattttgtccgcccaca GCGGGGCATTTTCTTCCCTG TCGAC CGATGCCCTTGAGAGCCTTCAACCCAGT  
CAGCTCCTTCCGGTGGGCGCGGGCATGACTATCGTCGCCGCACCTTATGACTGTCTTCTTTATCATGCAACTCGTAGGACAG  
GTGCCGCGAGCGCTCTGGTCACTTTTTCGGCAGGACCGCTTTCGCTGGAGCGGACGATGATCGGCCCTGCTGCTTGGCGTAT  
TCGGAACTCTGCACTGCCCTCGTCAAGCCTTCGTCACCTGGTCCCGCACAAACGTTTCGGCGAGAAGCAGGCCATTATCGC  
CGGCATGGCGGCC cggccg ACGCGCTGGGCTACGCTTGTGCTGGCGT Tcgccga CGCAGGCTGGATGGCTTCCCCATTATGA  
TTCTTCTCGCTTCCGGCGGCATCGGGATGCCCGGTTGCAGGCCATGCTGTCCAGGCAGGTAGATGACGACCATCAGGGACA  
GCTTCAAGGATCGCTCGCGGCTCTTACCAGCCTAACTTCGATCATTTGGACCGCTGATCGTCACGGCGATTTATGCCGCTCG  
GCGAGCACATGGAACGGGTTGGCATGGATTGTAGGCGCCGCCCTATACCTTGTCTGCCCTCCCCGCGTTGCGTCGCGGTGCAT  
GGAGCCGGGCCACCTCGACCTGAATGGAAGCCGGCGGCACCTCGCTAACGGATTACCCACTCCAAGAATTGGAGCCAATCAA  
TTCTTGGCGAGAACTGTGAATGCGCAAACCAACCCCTTGGCAGAACATATCCATCGCGTCCGCCATCTCCAGCAGCCGCACGC  
GGCGCATCTCGGGCAGCGTTGGTCCCTGGCCACGGGTGCGCATGATCGTCTCCTGTGCTTGAGGACCCGGCTAGGCTGGCG  
GGGTTGCCTTACTGGTTAGCAGAATGAATCACCGATACGCGAGCGAACGTGAAGCGACTGCTGCTGCAAAACGCTCTGCGACC  
TGAGCAACAACATGAATGGTCTTCCGTTTCCGTTTTCGTAAGTCTGGAAACCGGAAAGTCAGCGCCCTGCACCATTATGT  
TCCGGATCTGCATCGCAGGATGCTGCTGGCTACCTGTGGAACACCTACATCTGTATTAACGAAGCGCTGGCATTGACCCCTG  
AGTGATTTTTCTCTGGTCCCGCCGATCCATACCGCCAGTTGTTTACCTCACAACGTTCCAGTAACCGGGCATGTTTCATCA  
TCAGTAACCCGTATCGTGAGCATCCTCTCTCGTTTTCATCGGTATCATTACCCCATGAACAGAAATCCCCCTTACACGGAGG  
CATCAgtgacaaacaggaaaaaccgccccttaacatggcccgtttatcagaagccagacattaacgcttctgggaaact  
caacgagctggacgcgatgaacaggcagacatctgtgaatcgcttcacgaccacgctgatgagctttaccgagctgcctc  
gcgctttcggtgatgacggtgaaaacctctgacacatgcagctcccggagacggtcacagcttgtctgtaagcggatgccg  
ggagcagacaagcccgtcagggcgctcagcgggtgttggcgggtgtcggggcgagccatgaccagctcagctagcgatag  
cggagtgtatactggcttaactatgcggcatcagagcagattgtaactgagagtgacccatagcgggtgtgaaataccgcaca  
gatgctgaaggagaaaaatccgcatcaggcgctcttccgcttccctcgtcactgactcgtcgtcgtcgtcgtcgtcgtcgtcgtc  
gagcgggtatcagctcactcaaagcggtaaacggttatccacagaatcaggggataacgcaggaagaacaatgtagca  
aaagccagcaaaaagccaggaaccgtaaaaagccgctgtgctgagcgtttttccataggctccgccccctgacgagcatc  
acaaaaatcgacgctcaagttagaggtggcgaacccgacaggactataaagataaccaggcgtttccccctggaagctccct  
cgtgctctctcgttccgacctgcccgttacccgataacctgtccgctttctccctcgggaagcgtggcgctttctcat  
agctcacgctgtaggtatctcagttcgggtgtaggtcgttccgctccaagctgggctgtgtgcaaccccccttcagcccg  
accgctgccccttatccgtaactatcgtcttgagttccaaccggtgaagacacgacttatcgccactggcagcagccactgg  
taacaggattagcagagcaggtatgtaggcgggtgtacagagttcttgaagtgggtggcctaactacggctacactagaagg  
acagtatgtgtatctgctctgtctgaagccagttaccttcggaaaaagagttggttagctcttgatccggcaaaacaaacca  
ccgctggtagcgggtgttttttggtttgaagcagcagattacgcgcagaaaaaaggatctcaa GAAGATCCTTTGATCTT  
TTCTACGGGTCTGACGCTCAGTGAACGAAAACCTACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTACC

TAGATCCTTTTAAATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAAACTTGGTCTGACAGTTACCAATGCT  
 TAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTAC  
 GATACGGGAGGGCTTACCATCTGGCCCCAGTGTGCAATGATACCGGAGACCCACGCTCACC GGCTCCAGATTTATCAGCA  
 ATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGAAGTGGTCCGCAACTTTATCCGCCTCCATCCAGTCTATTAATTGTTGCC  
 GGAAGCTAGAGTAAGTAGTTTCGCCAGTTAATAGTTTGC GCAACGTTTGTGGCCATTGCTGCAGGCATCGTGGTGTACAGCTC  
 GTCGTTTGGTATGGCTTCATTCAGCTCCGGTTC CCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAAGCG  
 GTTAGCTCCTTCGGTCCCTCCGATCGTTGTCAGAAGTAAGTTGGCCGAGTGTATCACTCATGGTTATGGCAGCACTGCATA  
 ATTCTCTTACTGTTCATGCCATCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTAT  
 GCGGCGACCGAGTTGCTCTTGCCCGGCGTCAACACGGGATAATACCGCGCCACATAGCAGAAC TTTAAAAGTGCTCATCATT  
 GAAAAACGTTCTTCGGGGCGAAAACTCTCAAGGATCTTACC GCTGTTGAGATCCAGTTTCGATGTAACCCACTCGTGCACCCA  
 ACTGATCTTCAGCATTTTTACTTTTACCAGCTTTTCTGGGTGAGCAAAAAACAGGAAGGCAAAAATGCCGAAAAAAGGGAAT  
 AAGGCGACACGAAATGTTGAATACTCATACTTCTTCTTCTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATG  
 AGCGGATACATATTTGAAATGTATTTAGAAAAATAAACAAATAGGGGTTCCGCGCACATTTCCCGAAAAAGTGCCACCT **gacc**  
**tc**TAAGAAACCATTATTATCATGACATTAACCTATAAAAAATAGGCGTATCACGAGGCCCTTTCGTCTTCAA

## Zero Cutters

Enzyme	Cuts	Recognition Sequence
AflII	0	CTTAAG
AgeI	0	ACCGGT
AleI	0	CACNNNGTG
AscI	0	GGCGGCC
AsiSI	0	GCGATCGC
BbvCI	0	CCTCAGC
BlpI	0	GCTNAGC
BmgBI	0	CACGTC
BmtI	0	GCTAGC
BsiWI	0	CGTACG
BstEII	0	GGTNACC
Bsu36I	0	CCTNAGG
CspCI	0	NN (N) 11CAA (N) 5GTGG (N) 10NN
DraIII	0	CACNNNGTG
EcoNI	0	CCTNNNNNAGG
FseI	0	GGCCGGCC
I-CeuI	0	TAACTATAACGGTCCTAAGGTAGCGAA
I-SceI	0	TAGGGATAACAGGGTAAT
Nb.BbvCI	0	CCTCAGC
NheI	0	GCTAGC
Nt.BbvCI	0	CCTCAGC
PaqCI	0	CACCTGCNNNNNNNN
PI-PspI	0	TGGCAAACAGCTATTATGGGTATTATGGGT
PI-SceI	0	ATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGG
PmlI	0	CACGTG
PspXI	0	VCTCGAGB
SbfI	0	CCTGCAGG
SexAI	0	ACCWGGT
SfiI	0	GGCCNNNNNGGCC
SgrAI	0	CRCCGGYG
SmaI	0	CCCGGG
SrfI	0	GCCCGGGC
SwaI	0	ATTTAAAT
TspMI	0	CCCGGG
XcmI	0	CCANNNNNNNNTGG
XmaI	0	CCCGGG