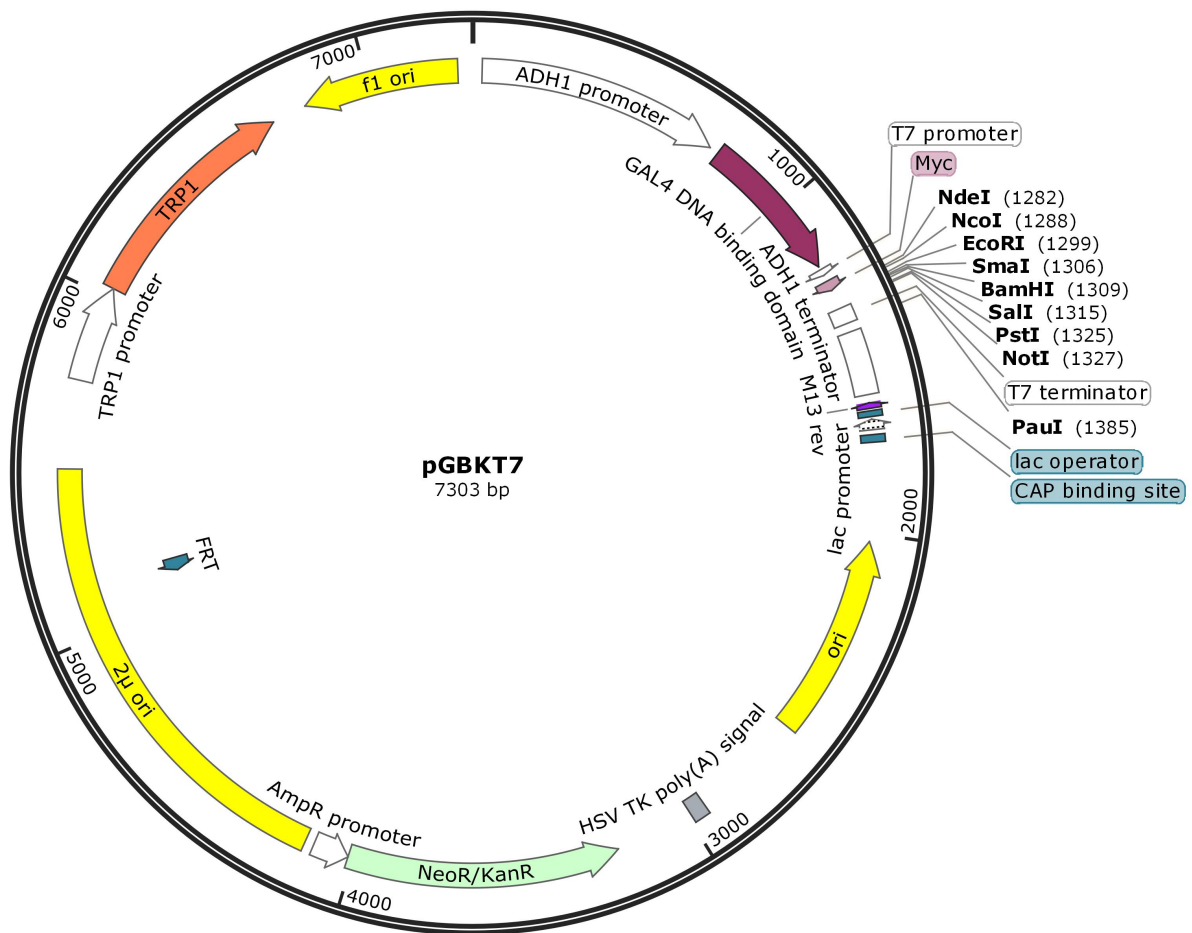


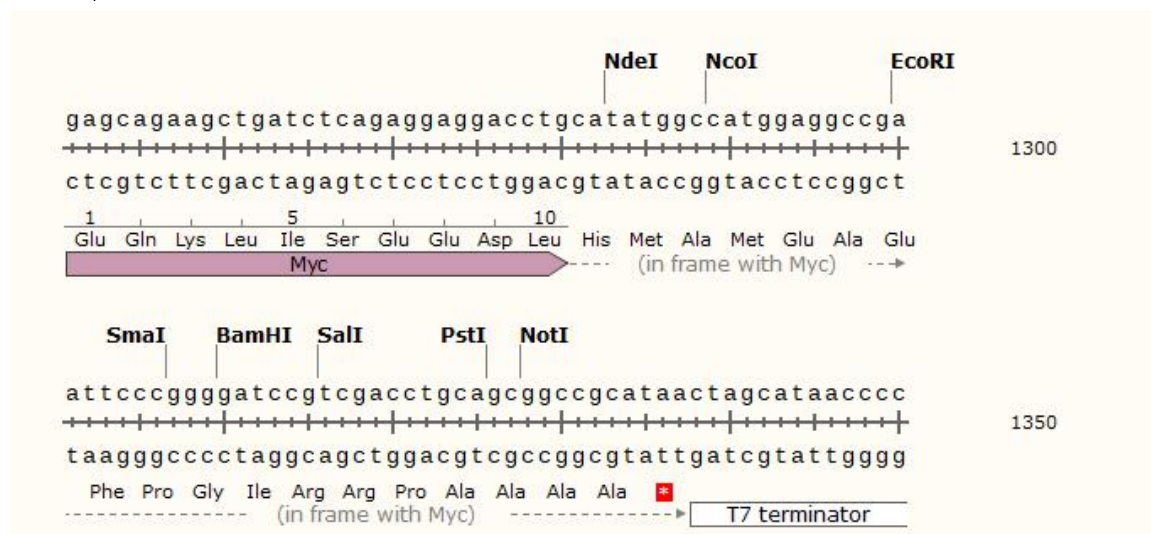
# pGBKT7 Vector Information

Created with SnapGene®



|             |                          |
|-------------|--------------------------|
| 载体名称:       | pGBKT7                   |
| 质粒类型:       | 酵母双杂交载体                  |
| 表达水平:       | 高拷贝                      |
| 启动子:        | ADH1 promoter            |
| 克隆方法:       | 多克隆位点, 限制性内切酶            |
| 克隆位点:       | MCS                      |
| 载体大小:       | 7303bp                   |
| 5' 测序引物及序列: | T7: TAATACGACTCACTATAGGG |
| 3' 测序引物及序列: | M13R: CAGGAAACAGCTATGACC |
| 载体标签:       | c-Myc                    |
| 载体抗性:       | Kan                      |
| 筛选标记:       | Neo                      |
| 产品目录号:      |                          |
| 稳定性:        | 瞬时表达 Transient           |
| 组成型/诱导型:    | 诱导型                      |
| 病毒/非病毒:     | 非病毒                      |
| 克隆菌株:       | DH5 α 等大肠杆菌              |

MCS ☒:



LOCUS           Exported 7303bp ds-DNA circular SYN 03-AUG-2017  
 DEFINITION    synthetic circular DNA  
 ACCESSION     .  
 VERSION       .  
 KEYWORDS      pGBKT7  
 SOURCE        synthetic DNA construct  
           ORGANISM   synthetic DNA construct  
 REFERENCE     1 (bases 1 to 7303)  
 AUTHORS       aaaaaa  
 TITLE         Direct Submission  
 JOURNAL       Exported Tuesday, Jun 11, 2019 from SnapGene 3.2.1  
               <http://www.snapgene.com>  
 FEATURES       Location/Qualifiers  
   source       1..7303  
               /organism="synthetic DNA construct"  
               /mol\_type="other DNA"  
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               /note="promoter for alcohol dehydrogenase 1"  
   CDS          762..1202  
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               activator"  
               /note="GAL4 DNA binding domain"  
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DAVTDRLASVETDMPLTLRQHRISATSSSEESSNKGQRQLTVS"  
 promoter 1213..1231  
 /note="T7 promoter"  
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 CDS 1251..1280  
 /codon\_start=1  
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 /translation="EQKLISEEDL"  
 terminator 1338..1385  
 /note="T7 terminator"  
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 terminator 1412..1599  
 /gene="S. cerevisiae ADH1"  
 /note="ADH1 terminator"  
 /note="transcription terminator for alcohol dehydrogenase 1"  
 primer\_bind complement(1623..1639)  
 /note="M13 rev"  
 /note="common sequencing primer, one of multiple similar variants"  
 protein\_bind 1647..1663  
 /bound\_moiety="lac repressor encoded by lacI"  
 /note="lac operator"  
 /note="The lac repressor binds to the lac operator to inhibit transcription in E. coli. This inhibition can be relieved by adding lactose or isopropyl-beta-D-thiogalactopyranoside (IPTG)."  
 promoter complement(1671..1701)  
 /note="lac promoter"  
 /note="promoter for the E. coli lac operon"  
 protein\_bind 1716..1737  
 /bound\_moiety="E. coli catabolite activator protein"  
 /note="CAP binding site"  
 /note="CAP binding activates transcription in the presence of cAMP."  
 rep\_origin complement(2025..2613)  
 /direction=LEFT  
 /note="ori"  
 /note="high-copy-number ColE1/pMB1/pBR322/pUC origin of replication"  
 polyA\_signal 2942..2989  
 /note="HSV TK poly(A) signal"

CDS /note="herpesvirus thymidine kinase polyadenylation signal"  
 complement(3221..4015)  
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 /gene="aph(3')-II (or nptII)"  
 /product="aminoglycoside phosphotransferase from Tn5"  
 /note="NeoR/KanR"  
 /note="confers resistance to neomycin, kanamycin, and G418  
 (Geneticin(R))"  
 /translation="MIEQDGLHAGSPAAWVERLFGYDWAQQTIGCSDAAVFRLSAQGRP  
 VLFVKTDLSGALNELQDEAARLSWLATTGVPAAVLDVVTEAGRDWLLLGEVPGDLLS  
 SHLAPA EKVSIMADAMRRLHTLDPATCPFDHQAKHRIERARTRMEAGLVDQDDLDEEHQ  
 GLAPAE L FARLKASMPDGEDLVVTHGDA CLPNIMVENGRFSGFIDCGRLGVADRYQDIA  
 LATRDIAEELGGEWADRFLVLYGIAAPDSQRIAFYRLLDEFF"

promoter complement(4016..4120)  
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rep\_origin 4147..5489  
 /note="2u ori"  
 /note="yeast 2u plasmid origin of replication"

protein\_bind complement(5110..5157)  
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 cerevisiae 2u plasmid"  
 /note="FRT"  
 /note="FLP-mediated recombination occurs in the 8-bp core  
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 /note="TRP1 promoter"

CDS 6030..6704  
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 for tryptophan biosynthesis"  
 /note="TRP1"  
 /note="yeast auxotrophic marker"  
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 WQEYQEFLGLPVIKRLVFPKDCNILLSAASQKPHSF IPLFDSEAGGTGELLDWNSISDW  
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 KK"

rep\_origin complement(6807..7262)  
 /direction=LEFT  
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 /note="f1 bacteriophage origin of replication; arrow"

indicates direction of (+) strand synthesis”

ORIGIN

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121 TCTCCCTAAC ATGTAGGTGG CGGAGGGGAG ATATACAATA GAACAGATAC CAGACAAGAC
181 ATAATGGGCT AAACAAGACT ACACCAATTA CACTGCCTCA TTGATGGTGG TACATAACGA
241 ACTAATACTG TAGCCCTAGA CTTGATAGCC ATCATCATAT CGAAGTTTCA CTACCCTTTT
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361 TTTCTCTCTC CCCCGTTGTT GTCTCACCAT ATCCGCAATG ACAAAAAAAT GATGGAAGAC
421 ACTAAAGGAA AAAATTAACG ACAAAGACAG CACCAACAGA TGTCGTTGTT CCAGAGCTGA
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841 AGTGCGCCAA GTGTCTGAAG AACAACGGG AGTGTGCTA CTCTCCAAA ACCAAAAGGT
901 CTCGCTGAC TAGGGCACAT CTGACAGAAG TGAATCAAG GCTAGAAAGA CTGGAACAGC
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1021 AGGATATAAA AGCATTGTTA ACAGGATTAT TTGTACAAGA TAATGTGAAT AAAGATGCCG
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1861 ACTGACTCGT TGGCTCGGT CGTTCGGCTG CGGCGAGCGG TATCAGCTCA CTCAAAGGCG
1921 GTAATACGGT TATCCACAGA ATCAGGGGAT AACGCAGGAA AGAACATGTG AGCAAAAGGC
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2041 CCCCTGACG AGCATCACAA AAATCGACGC TCAAGTCAGA GGTGGCGAAA CCCGACAGGA
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2161 CTGCCGCTTA CCGGATACCT GTCCGCCTTT CTCCCTTCG GAAGCGTGGC GCTTTCTCAT
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