INTEGRATED DNA TECHNOLOGIES

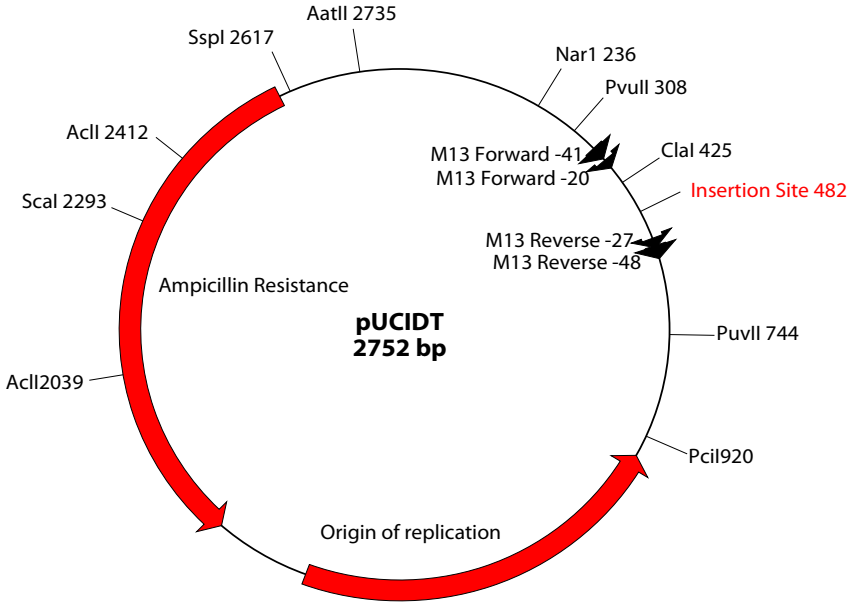
pUCIDT, Ampicilin resistance

This high copy vector is based on the pUC vectors originally developed by Joachim Messing's lab in the early 80s (Vieira and Messing 1982).These plasmids are among the most commonly used in molecular biology. We have modified the original pUC plasmids so that most of the commonly used restriction sites are removed, allowing the researcher to add the desired sites to the synthetic construct as needed. This plasmid is particularly well suited for longer GENEs.

Common restriction sites tha are NOT present:

AarI, AbsI,AccI, AfeI, AleI, AlfI, AloI, ApaI, ApoI, ArsI, AscI, AvaI, AvrII, BaeI, BamHI, BclI, BfuAI, BglII, BlpI,BsgI BsmI, BtgI, DraIII, EcoNI, EcoRI, FalI, FseI, FspAI, HincII, HindIII, HpaI, KflI, KpnI, MluI, MreI, MscI, NaeI, NcoI, NdeI, NheI, NotI, NruI, PacI, PmeI, PmlI, PpuMI, PsiI, PsrI, PstI, SacI, SacII, SalI, SexAI, SfiI, SmaI, SphI, SrfI, StuI, SwaI, TliI, TstI, XbaI, XhoI, XmaI

For a complete list of restriction sites, see www.idtdna.com



Sequence surrounding the insertion site:

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                 M13 Forward -41              M13 Forward -20
341  AAGTTGGGTA ACGCCAGGGT TTTCCCAGTC ACGACGTTGT AAAACGACGG CCAGTGCAAC GCGATGACGA
     TTCAACCCAT TGCGGTCCCA AAAGGGTCAG TGCTGCAACA TTTTGCTGCC GGTCACGTTG CGCTACTGCT

411  TGGATAGCGA TTCATCGATG AGCTGACCCG ATCGCCGCCG CCGGAGGGTT GCGTTTGAGA CGGGCGACAG
     ACCTATCGCT AAGTAGCTAC TCGACTGGGC TAGCGGCGGC GGCCTCCCAA CGCAAACTCT GCCCGCTGTC

481  AT    GENE   ATCAGTTC TGGACCAGCG AGCTGTGCTG CGACTCGTGG CGATCGGGTC AGCTCATCGA
     TA    GENE   TAGTCAAG ACCTGGTCGC TCGACACGAC GCTGAGCACC GCTAGCCCAG TCGAGTAGCT

561  TGAATCGCTA TCCATCGTCA TCGCGTTGCG TAATCATGGT CATAGCTGTT TCCTGTGTGA AATTGTTATC
     ACTTAGCGAT AGGTAGCAGT AGCGCAACGC ATTAGTACCA GTATCGACAA AGGACACACT TTAACAATAG
                                              M13 Reverse -27 M13 Reverse -48
621  CGCTCACAAT TCCACACAAC ATACGAGCCG GAAGCATAAA GTGTAAAGCC TGGGGTGCCT AATGAGTGAG
     GCGAGTGTTA AGGTGTGTTG TATGCTCGGC CTTCGTATTT CACATTTCGG ACCCCACGGA TTACTCACTC
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References:

Vieira J, Messing J. The pUC plasmids, an M13mp7-derived system for insertion mutagenesis and sequencing with synthetic universal primers. Gene. 1982 Oct;19(3):259-68. PubMed PMID: 6295879.