

Anhang

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Oligonucleotidsequenzen

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| hGNE1A-For | 5'-ATggAgAAgAATggAAATAACCgAAA-3' | 27 bp |
| hGNE2A-For | 5'-AgggTACAgAgCTCgTgCTTCggg-3' | 24 bp |
| hGNEA-Rev | 5'-ggCAgCCTgCCAAAaggATgC-3' | 21 bp |
| hGNEB-Rev | 5'-CTAgTAgATCCTgCgTgTTgTgTAgTC-3' | 27 bp |
| mGNE1-1-For | 5'-ATggAgAAgAACgggAACAAACCgAAA-3' | 33 bp |
| mGNE2-1-For | 5'-ATggAAACACACgCgCATCTCC-3' | 22 bp |
| mGNEA-Rev | 5'-TgACCTCgCCTCCTTCAATg-3' | 20 bp |
| hGNE1B-For | 5'-ATggAgAAgAATggAAATAACCgAAA-3' | 33 bp |
| hGNE2B-For | 5'-ATggAAACCTATggTTATCTgCgAggggAgTCATgCTTTCAAaggA-3' | 45 bp |
| hGNE3-For | 5'-ATggTTATCTgCgAggggAgTCATgCTTTCAAaggACCTCATAAATAC ATATCgAATg-3' | 57 bp |
| hGNEC-Rev | 5'-CTAgTgATggTgATggTgATgATCgATTgggTAgATCCTgCgTgT-3' | 45 bp |
| mGNE1-2-For | 5'-ATggAgAAgAACgggAACAAACCgAAA-3' | 30 bp |
| mGNE2-2-For | 5'-ATggAAACACACgCgCATCTCCACagg-3' | 27 bp |
| mGNEB-Rev | 5'-CTAgTgATggTgATggTgATgATCgATTgggTggATCCTgCgCgT-3' | 45 bp |
| hGNE3EC-For | 5'-gAATTCgAATTCATggTTATCTgCgAgggg-3' | 30 bp |
| hGNE3EC-Rev | 5'-gCggCCgCgCggCCgCgTAgATCCTgCg-3' | 28 bp |
| SZGNE1-For | 5'-ATggAgAAgAATggAAATAACCg-3' | 23 bp |
| SZGNE2-For | 5'-ATggAAACCTATggTTATCTgC-3' | 22 bp |
| SZGNE3-For | 5'-ATggTTATCTgCgAggggAg-3' | 20 bp |
| SZGNE-Rev | 5'-gTAgATCCTgCgTgTTgT-3' | 18 bp |
| pFASTBAC1-For | 5'-TggCTACgTATACTCCggAA-3' | 20 bp |
| bact1546s | 5'-ACACggCATTgTAACCAACTgg-3' | 22 bp |
| bact2553r | 5'-CTCATTgCCgATAgTgATgACC-3' | 22 bp |
| MutHybrid1-For | 5'-AggCTCCACACgATTgTgAgAggggAAgATgAAgC-3' | 35 bp |
| MutHybrid1-Rev | 5'-gCTTCATCTTCCCCTCTCACAATCgTgTggAgCCT-3' | 35 bp |
| MutHybrid2-For | 5'-CATCAAgACAgAgCCCgAgTTCTTTgAgTTggACgTg-3' | 37 bp |
| MutHybrid2-Rev | 5'-CACgTCCAACCTCAAaggAACTCgggCTCTgTCTTgATg-3' | 37 bp |
| Oxr1 lonG-For | 5'-gAATTCATggACTACCTgACgACg-3' | 24 bp |
| Oxr1 short-For | 5'-gAATTCATgTCTTTTCAgAAACCTAAaggg-3' | 30 bp |

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| Oxr1-Rev | 5'-gCggCCgCCTATTCAAAAgCCCgATTTC-3' | 29 bp |
| Oxr1 kurz-Rev | 5'-ATggCgAAgTCCCTTCCT-3' | 19 bp |
| MuthGNE1-For | 5'-ggATATCTgCgAATTCAggATggAgAAgAATggAAATAACC-3' | 42 bp |
| MuthGNE1-Rev | 5'-ggTTATTTCCATTCTTCTCCATCCTgAATTCTgCgAATATCC-3' | 42 bp |
| MuthGNE3-For | 5'-ATggATATCTgCgAATTCAggATggTTATCTgCgAggggAgTC-3' | 44 bp |
| MuthGNE3-Rev | 5'-gACTCCCTCTgCgATAACCATCCTgAATTCTgCgAATATCCAT-3' | 44 bp |
| MuthGNE3II-For | 5'-AgTATACTCAgTTCAATCCTAAAACCTATgAAgAgAgg-3' | 38 bp |
| MuthGNE3II-Rev | 5'-CCTCTCTTCATAggTTTTAggATTgAACTgAgTATACT-3' | 38 bp |
| MutmGNE2-For | 5'-gTAAAAgAAgCAAgTCgCggAgAAgAACgggAACAAACCg-3' | 40 bp |
| MutmGNE2-Rev | 5'-CggTTgTTCCCgTTCTTCTCCgCgACTTgCTTCTTTTTAC-3' | 40 bp |
| Mut Oxr1-For | 5'-ggATTCTTTTCTTCATgAgAACTCgTTACACCAAgAAgAgAgTC-3' | 44 bp |
| Mut Oxr1-Rev | 5'-gACTCTCTTCTTggTgTAACgAgTTCTCATgAAgAAAagAATCC-3' | 44 bp |
| M13-For | 5' IRD 800-gTAAACgACggCCAgT-3' | 17 bp |
| M13-Rev | 5' IRD 700-CAggAAACAgCTATgACCATg-3' | 21 bp |
| pFASTBAC-For | 5' IRD 800-TggCTACgTATACTCCggAA-3' | 20 bp |
| pFASTBAC-Rev | 5' IRD 700-TTTCAggTTCAgggggAggT-3' | 20 bp |
| GST-For | 5' IRD 800-ATCTggTTCCgCgTggATC-3' | 19 bp |
| pGEX-Rev | 5' IRD 700-TCCgggAgCTgCATgTgTCAgAgg-3' | 24 bp |
| T7-For | 5' IRD 800-TAATACgACTCACTATAggg-3' | 20 bp |
| BGH-Rev | 5' IRD 700-TAgAAggCACAgTCgAgg-3' | 18 bp |
| h64-For | 5' IRD 800-CAgCCATggTggAgTCAgTA-3' | 20 bp |
| h64-Rev | 5' IRD 700-TgTCATAggAAgggCAgCCT-3' | 20 bp |
| h53-For | 5' IRD 800-gTgATCAACCTgggAACACgT-3' | 21 bp |
| h53-Rev | 5' IRD 700-CggCCAAGgCACTTAgAgT-3' | 19 bp |
| h42-For | 5' IRD 800-CCAAGAgTggAACTCTgTggA-3' | 21 bp |
| h42-Rev | 5' IRD 700-ggAgCTTCCgTggATCAATT-3' | 20 bp |
| m64-For | 5' IRD 800-gCCATggTAgAgTCggTA-3' | 18 bp |
| m64-Rev | 5' IRD 700-TgTCATAggAAgggCAgCCT-3' | 20 bp |
| m53-For | 5' IRD 800-gTgATCAACCTgggCACAAG-3' | 20 bp |
| m53-Rev | 5' IRD 700-AgCCAAGgCACTCAgAgT-3' | 18 bp |
| m42-For | 5' IRD 800-CAggAATggAACTCCgTggA-3' | 20 bp |
| m42-Rev | 5' IRD 700-ACTgATCCACggCAgCTC-3' | 18 bp |
| Oxr1 497-For | 5' IRD 800-AgACCACTAATCCTgATgTCC-3' | 21 bp |

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| Oxr1 1265-For | 5' IRD 800-AC TTTCAA g g AATATCA g g TCC-3' | 22 bp |
| Oxr1 1787-For | 5' IRD 800-ATg CCTTCTTCATTCAgTgg-3' | 20 bp |
| Oxr1 654-Rev | 5' IRD 700-AgCACACCACTgACTgTgCCC-3' | 21 bp |
| Oxr1 1283-Rev | 5' IRD 700-TgTgCTgTCTTCTTTAggACC-3' | 21 bp |
| Oxr1 1976-Rev | 5' IRD 700-ACTCCA g g TCTgCTTTCAC Tg-3' | 21 bp |

Vektorkarte und Multiple cloning sites des pCR®-Blunt-Vektors

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M13 Reverse priming site
201 CACACAGGAA ACAGCTATGA CCATGATTAC GCCAAGCTAT TTAGGTGACG CGTTAGAATA
    GTGTGTCCTT TGTCGATACT GGTACTAATG CCGTTCGATA AATCCACTGC GCAATCTTAT

Nsi I Hnd III Kpn I Sac I BamH I Spe I
CTCAAGCTAT GCATCAAGCT TGGTACCGAG CTCGGATCCA CTAGTAACGG CCGCCAGTGT
GAGTTCGATA CGTAGTTCGA ACCATGGCTC GAGCCTAGGT GATCATTGCC GGCAGTCACA

EcoR I                               EcoR I   Pst I   EcoR V
GCTGGAATTC AGG [Blunt PCR Product] CCTGAATTCT GCAGATA
CGACCTTAAG TCC GACTTAAGA CGTCTAT

Not I Xho I Nsi I Xba I Apa I T7 promoter/priming site
TCCATCACAC TGGCGGCCGC TCGAGCATGC ATCTAGAGGG CCCAATTCGC CCTATAGTGA
AGGTAGTGTG ACCGCCGGCG AGCTCGTACG TAGATCTCCC GGGTTAAGCG GGATATCACT

M13 Forward (-20) priming site
GTCGTATTAC AATTCACCTGG CCGTCGTTT ACAACGTCGT GACTGGGAAA ACCCTGGCGT 470
CAGCATAATG TTAAGTGACC GGCAGCAAAA TGTTCAGCA CTGACCCTTT TGGGACCGCA
    
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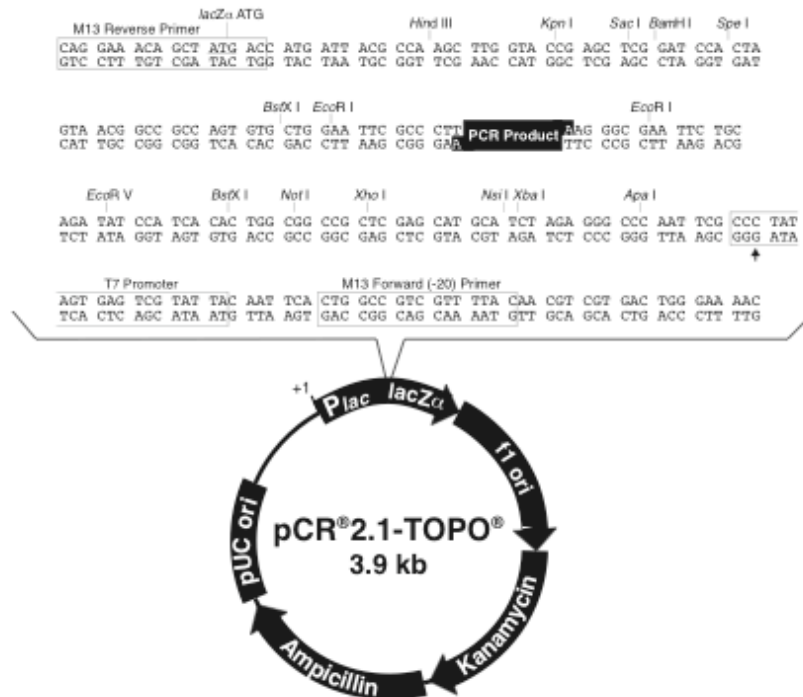
Comments for pCR®-Blunt
3512 nucleotides

- Lac promoter/operator region: bases 95-216
- M13 Reverse priming site: bases 205-221
- LacZ-alpha ORF: bases 217-570
- T7 promoter priming site: bases 400-419
- M13 Forward (-20) priming site: bases 427-442
- Fusion joint: bases 571-579
- ccdB lethal gene ORF: bases 580-882
- Kanamycin resistance ORF: bases 1231-2025
- Zeocin resistance ORF: bases 2231-2605
- pUC origin: bases 2673-3386



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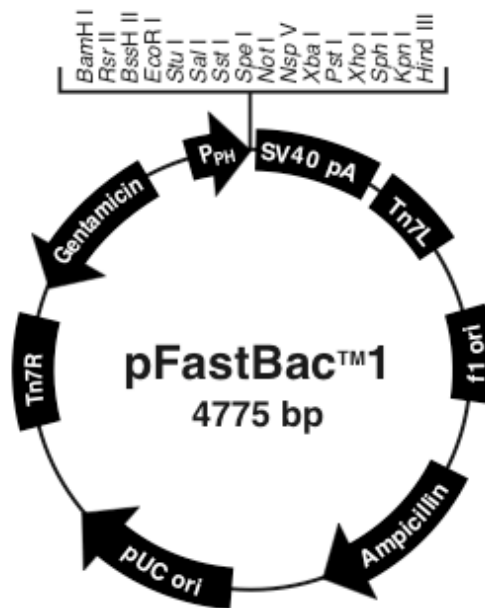
Vektorkarte und Multiple cloning sites des pCR[®]2.1-TOPO-Vektors



Comments for pCR[®]2.1-TOPO[®] 3931 nucleotides

LacZ α fragment: bases 1-547
M13 reverse priming site: bases 205-221
Multiple cloning site: bases 234-357
T7 promoter/priming site: bases 364-383
M13 Forward (-20) priming site: bases 391-406
f1 origin: bases 548-985
Kanamycin resistance ORF: bases 1319-2113
Ampicillin resistance ORF: bases 2131-2991
pUC origin: bases 3136-3809

Vektorkarte und Multiple cloning sites des pFASTBAC™ 1-Vektors

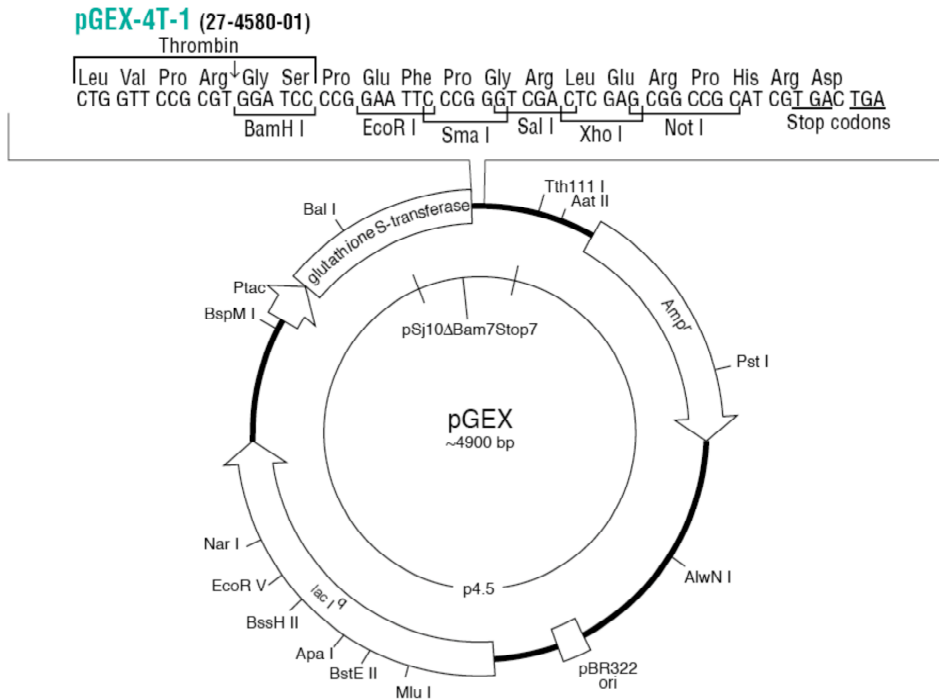


Comments for pFastBac™1
4775 nucleotides

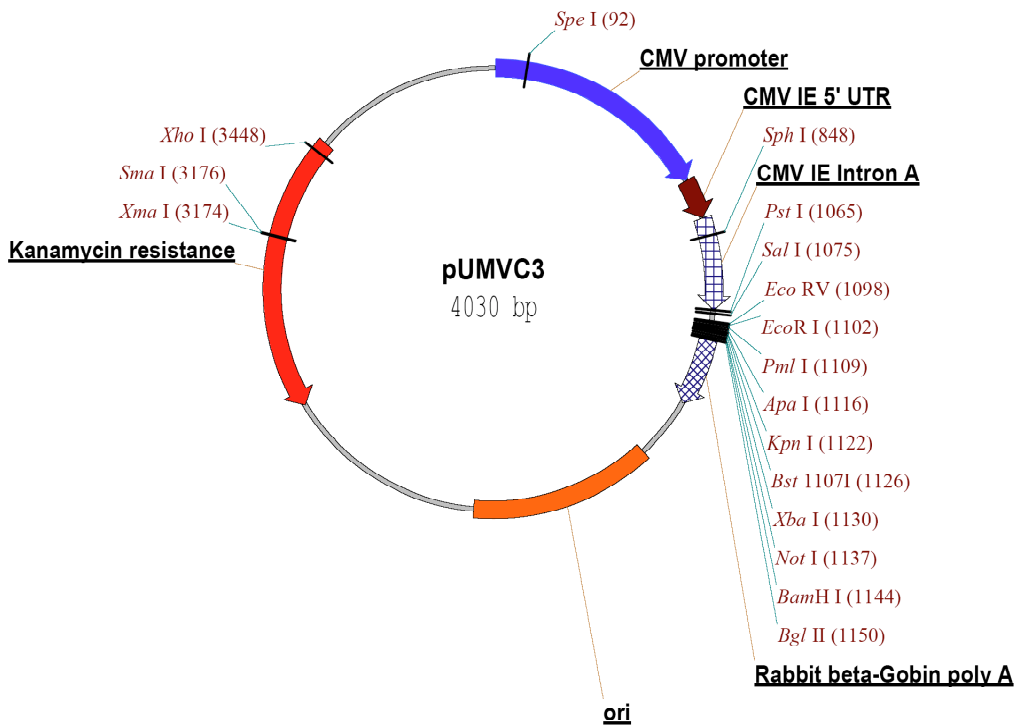
- f1 origin: bases 2-457
- Ampicillin resistance gene: bases 589-1449
- pUC origin: bases 1594-2267
- Tn7R: bases 2511-2735
- Gentamicin resistance gene: bases 2802-3335 (complementary strand)
- Polyhedrin promoter (P_{PH}): bases 3904-4032
- Multiple cloning site: bases 4037-4142
- SV40 polyadenylation signal: bases 4160-4400
- Tn7L: bases 4429-4594



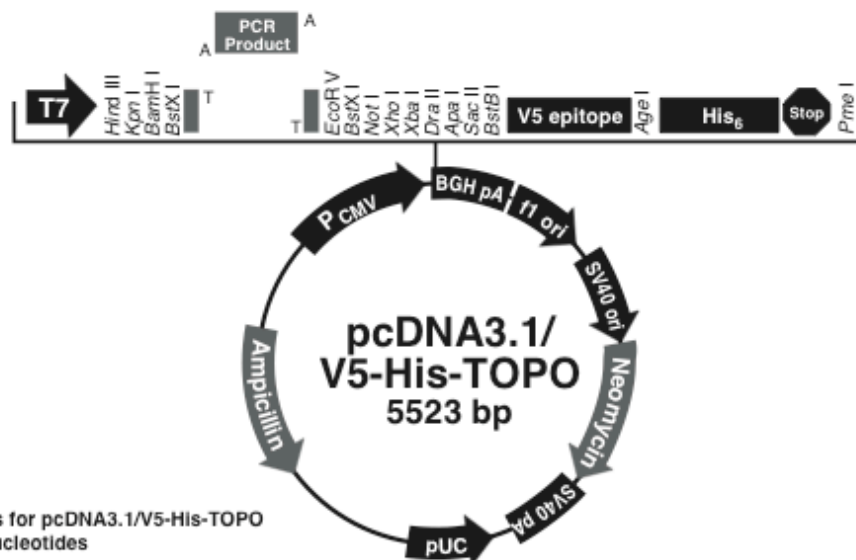
Vektorkarte und Multiple cloning sites des pGEX™-4T-1-Vektors



Vektorkarte und Multiple cloning sites des pUMVC3-Vektors



Vektorkarte und Multiple cloning sites des pcDNA3.1/V5-His-TOPO-Vektors



Comments for pcDNA3.1/V5-His-TOPO 5523 nucleotides

- CMV promoter: bases 209-863
- T7 promoter/priming site: bases 863-882
- Multiple cloning site: bases 902-1019
- TOPO® Cloning site: 953-954
- V5 epitope: bases 1020-1061
- Polyhistidine tag: bases 1071-1088
- BGH reverse priming site: bases 1111-1128
- BGH polyadenylation signal: bases 1110-1324
- f1 origin of replication: bases 1387-1800
- SV40 promoter and origin: bases 1865-2190
- Neomycin resistance gene: bases 2226-3020
- SV40 polyadenylation signal: bases 3039-3277
- pUC origin: bases 3709-4382
- Ampicillin resistance gene: bases 4527-5387