

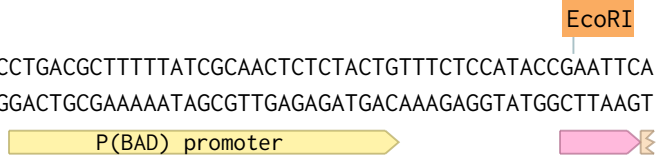
(from 1-1177 bp)

pJ2040 (7459 bp)

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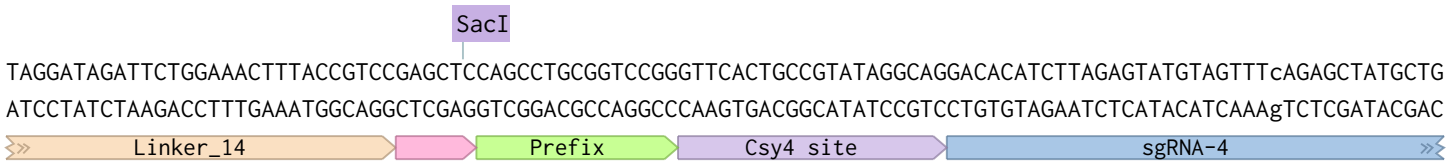
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CACGGCGTCACACTTGGCTATGCCATAGCATTTTTATCCATAAGATTAGCGGtCCTACCTGACGCTTTTTATCGCAACTCTCTACTGTTTCTCCATACCGAATTCA
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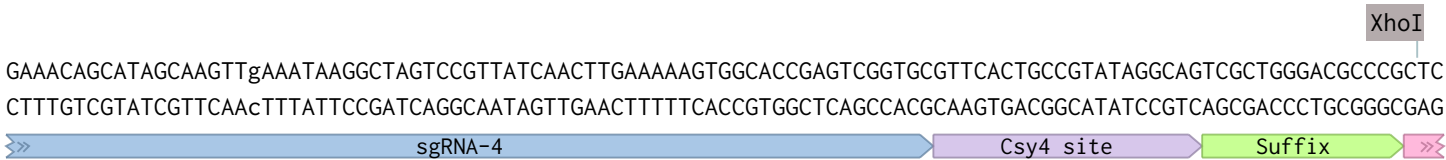
The diagram shows a yellow arrow labeled "P(BAD) promoter" pointing to the right, and a pink box labeled "EcoRI" with a vertical line indicating its recognition site on the DNA sequence.

TAGGATAGATTCTGAAAACTTTACCGTCCGAGCTCCAGCCTGCGGTCCGGTTCCTGCGGTATAGGCAGGACACATCTTAGAGTATGTAGTTTcAGAGCTATGCTG
ATCCTATCTAAGACCTTTGAAATGGCAGGCTCGAGGTCCGACGCCAGGCCAAGTACGCGCATATCCGTCCTGTGTAGAATCTCATACATCAAAGTCTCGATACGAC



The diagram shows four colored arrows: an orange arrow labeled "Linker_14", a pink arrow labeled "Prefix", a purple arrow labeled "Csy4 site", and a blue arrow labeled "sgRNA-4".

GAAACAGCATAGCAAGTTgAAATAAGGCTAGTCCGTTATCAACTTGAAAAAGTGGCACCGAGTCCGTTGCGTTCCTGCGGTATAGGCAGTCCGTTGGGACGCCCGCTC
CTTTGTCGTATCGTTCAAcTTTATTCCGATCAGGCAATAGTTGAACTTTTTACCGTGGCTCAGCCACGCAAGTACGCGCATATCCGTCAGCGACCTGCGGGCGAG



The diagram shows three colored arrows: a blue arrow labeled "sgRNA-4", a purple arrow labeled "Csy4 site", and a green arrow labeled "Suffix".

GAGCAATAAACAGTTGATAGGGCTTCTCCGTTACAGCCTGCGGTCCGGTTCCTGCGGTATAGGCAGTAATTTTGTAACTTAAAGAAGGAGATATACATATGGT
CTCGTATTTGTCAACTATCCCGAAGAGGCAATGTCGGACGCCAGGCCAAGTACGCGCATATCCGTCATTAACAACAATTGAAATTTCTCTATATGTATACCA



The diagram shows four colored arrows: an orange arrow labeled "Linker_0", a green arrow labeled "Prefix", a purple arrow labeled "Csy4 site", and a blue arrow labeled "RBS".

TTCGGTTATCAAACCAGAGATGAAAATGCGTTACTATATGGATGGTTCAGTAAATGGTCACGAATTTACTATTGAGGGCGAGGGTACGGGACGCCATACGAGGGGC
AAGCCAATAGTTTGGTCTCTACTTTTACGCAATGATATACCTACCAAGTCATTTACCAGTGTAAATGATAACTCCGCTCCCATGCCCTGCGGGTATGCTCCCCG



The diagram shows a single orange arrow labeled "mK02" spanning the width of the text.

ACCAGGAAATGACTTTACGCGTCACAATGGCTGAAGGCGGGCCTATGCCGTTGCGTTCGATCTTGTTAGTCATGTCTTTTGTACGGTCACCGTGTATTTACTAAA
TGGTCTTTACTGAAATGCGCAGTGTTACCGACTTCCGCCCGGATACGGCAAACGCAAGCTAGAACAATCAGTACAGAAAACAATGCCAGTGGCACATAAATGATTT




The diagram shows a single orange arrow labeled "mK02" spanning the width of the text.

TACCCGAGGAAATCCAGACTATTTCAAACAAGCCTTCCCGAAGGTTTGTCTTGGGAGCGCAGTTTAGAGTTTGAAGACGGTGGCTCGGCCAGCGTGTGAGCTCA
ATGGGGCTCCTTTAAGTCTGATAAAGTTTGTTCGGAAGGGCCTTCCAAACAGAACCTCGCGTCAAATCTCAAACCTTCTGCCACCGAGCCGGTGCACAGTCGAGT



The diagram shows a single orange arrow labeled "mK02" spanning the width of the text.

TATTAGTCTTCGCGCAATACATTTTTATCACAAGTCAAAGTTACCGGCGTGAACCTCCCGCAGACGGCCAATCATGCAGAATCAAAGTGTGATTGGGAACCGT
ATAATCAGAAGCGCCGTTATGTAAAATAGTGTTCAGTTTCAAGTGGCCGCACTTGAAGGGGCGTCTGCCGGTTAGTACGTCTTAGTTTCAACAATAACCTTGGCA



The diagram shows a single orange arrow labeled "mK02" spanning the width of the text.

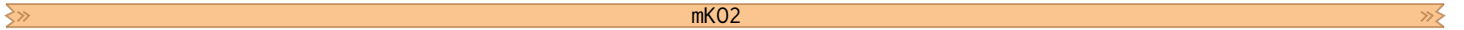
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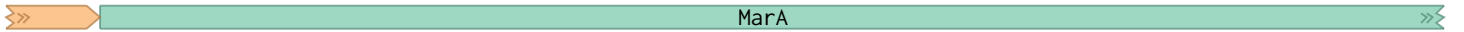
The diagram shows a single orange arrow labeled "mK02" spanning the width of the text.

pJ2040 (7459 bp) (from 1178-2354 bp)

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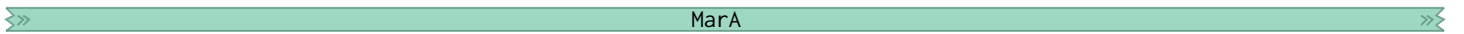
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GTAGTGGTACTCAAAGTGGCACCTTCAGCGCATGTTTAAAGAGGAAACGGGTCATTCATTGGGTCAATATATTCGTTCTCGCAAGATGACTGAAATTGCCAGAAA
CATCACC AATGAGTTTACCCTGGAAGTCGCGTACAAAATCTTCTTTGCCAGTAAGTAACCCAGTTATATAAGCAAGAGCGTTCTACTGACTTTAACGGGCTTTT



TTGAAAGAGTCTAATGAACCTATTTGTACCTGGCGGAGCGTTACGGCTTTGAAAGTCAGCAAACCTTACACGTACCTTCAAGAATTACTTTGACGTTCCACCACA
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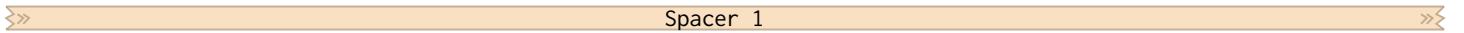
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CTTAAGACCGCCGGTCTTGCCACTACCTTGCAGTAATGCGGTGGACAGGATCGGCGGTTTTCTTTCTTCTCAATTCTTCTGACCTGTAAAGAAATAGATAG
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TAGTTGTTATTGAGTAAGAAGGTAAAGTGAACGAAATCCCTGAAACTGAGACTGTAGAAAATAAGCTTCAGCCTGCGGTCCGGTTGACAGCTAGCTCAGTCCTAGG
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pj2040 (7459 bp) (from 2355-3531 bp)

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TACGCTGCTTGCCGTTTACTGGGACTTTAAATAGACGTGGTGCCATTTGACGGCCAGGGCACCAGGCTGCGACCACTGGTGCGACTGGATACCGCAAGTTACAAA

»» sfGFP »»

GCGCGTTACCCGGATCACATGAAACAGCAGACTTTTTCAAATCGGCCATGCCGGAAGGCTATGTGCAGGAACGTACGATTAGCTTTAAAGACGATGGTACGTATAA
CGCGCAATGGCCTAGTGTACTTTGTCGTGCTGAAAAAGTTTAGCCGGTACGGCCTTCCGATACAGTCTTGCATGCTAATCGAAATTTCTGCTACCATGCATATT

»» sfGFP »»

AACCCGCGCGAAGTGAATTCGAAGGCGATACCCTGGTTAACCGTATCGAAGTAAAGGTATCGATTTCAAAGAAGACGGCAATATTCTGGGTCATAAACTGGAAT
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»» sfGFP »»

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»» sfGFP »»

GCCGACCACTATCAGCAAAACACGCCGATTGGTGTGGCCCGTCTGCTGCCGACAATCACTACCTGAGTACCCAGTCCGTGCTGTCAAAGATCCGAACGAAAA
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»» sfGFP »»

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»» sfGFP MarAn20 »»

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»» MarAn20 Suffix L3S2P21 Terminator »»

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»» Spacer 2.5 »»

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TATTGTCTATCTAACATTATTCTGTGTCATCCACGAGCATCAACGCACTTCTCTTGGCGAGTCTTTAGGTCAGTCTTCATAACCATTAGCAACTTTTGTAGTCAGT

»» Spacer 2.5 SalI »»

CGCACTTACTGAAGACGTCCTATTACACTCGTCGTTGAAACTGAAGATCAGCCTGCGGTCGGGTTCACTGCCGTATAGGCAGTAATTTGTTTAACTTTAAGAAG
GCGTGAATGACTTCTGCAGGATAATGTGAGCAGCAACCTTTGACTTCTAGTCGGACGCCAGGCCAAGTACGCGCATATCCGTCAATAAACAAATTTGAAATCTTCT

»» Spa... 5 Linker_11 Prefix Csy4 site RBS »»

GAGATATACATATGAATCAGTCATTCATCTCGGACATCTTATATGCCGACATCGAATCGAAGGCTAAGGAACCTACAGTCAATTCACAATACTGTCCAGCCGGTC
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»» RBS RepA70 »»

pJ2040 (7459 bp) (from 3532-4815 bp)

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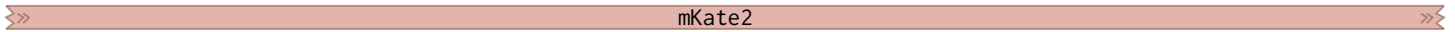
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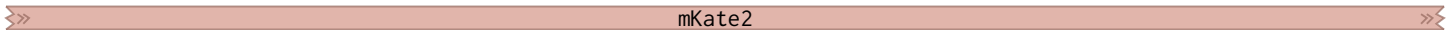
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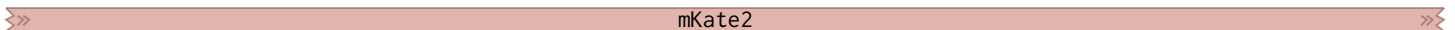
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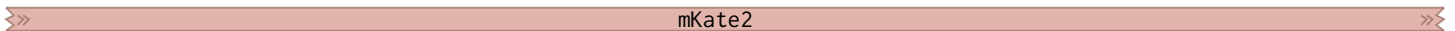
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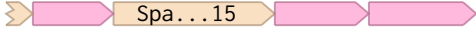
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NotI
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KasI **BbvCI** **AscI**
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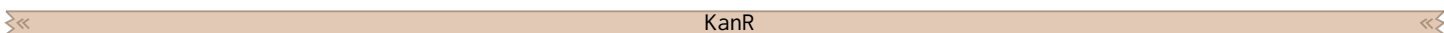
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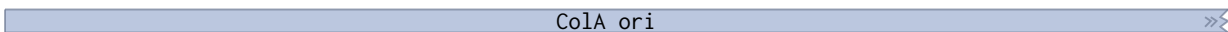
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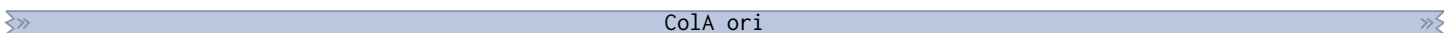
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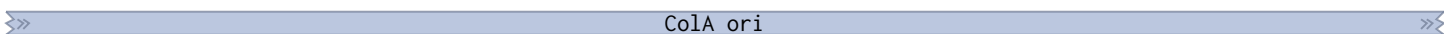
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» ColA ori »

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» ColA ori »

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» ColA ori »

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» Co...i »

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cggggtggccttcctcagctgaccaacGAGGATcCCAGACTAAGCAATGTTAATACTGTTGAACTGCCGATGTAGTAAGTGAAGAAAAGAAGTGTGGCCGTGCCTT

» araC »

CTCGCTCGGGCTGGCCCCGGTGCATTTTTTAAATACCCGCGAGAAATAGAGTTGATCGTCAAAACCAACATTGCGACCGACGGTGGCGATAGGCATCCGGTGGTGC
GAGCGAGCCCGACCGGGCCACGTAAAAATTTATGGGCGCTCTTTATCTCAACTAGCAGTTTTGGTTGTAACGCTGGCTGCCACCGCTATCCGTAGGCCACCACG

» araC »

TCAAAGCAGCTTCGCTGGCTGATACGTTGGTCTCGCGCCAGCTTAAGACGCTAATCCCTAACTGCTGGCGGAAAAGATGTGACAGACGCGACGGCGACAAGCAA
AGTTTTCGTGAAGCGGACCGACTATGCAACCAGGAGCGCGGTGCAATTCTGCGATTAGGGATTGACGACCGCTTTTCTACACTGTCTGCGCTGCCGCTGTTCTGT

» araC »

ACATGCTGTGCGACGCTGGCGATATCAAATTGCTGTCTGCCAGGTGATCGTGTACTGACAAGCCTCGGTACCCGATTATCCATCGGTGGATGGAGCGACTC
TGTACGACACGCTGCCACCGCTATAGTTTTAACGACAGACGGTCCACTAGCGACTACATGACTGTTGCGAGCGCATGGGCTAATAGGTAGCCACCTACCTCGTGA

» araC »

GTTAATCGCTTCATGCGCCGAGTAACAATTGCTCAAGCAGATTTATCGCCAGCAGCTCCGAATAGCGCCCTTCCCCTTGCCCGCGTTAATGATTTGCCAAACA
CAATTAGCGAAGGTACGCGCGTCATTGTTAACGAGTTCGTCTAAATAGCGGTGTCGAGGCTTATCGCGGGAAGGGGAACGGGCCGAATTAATAACGGGTTTTGT

» araC »

GGTCGCTGAAATGCGGCTGGTGCCTTATCCGGGCGAAAGAACCCCGTATTGGCAAATATTGACGGCCAGTTAAGCCATTCATGCCAGTAGGCGCGGGACGAAAG
CCAGCGACTTTACGCCGACCACGCGAAGTAGGCCGCTTTCTTGGGCATAACCGTTTATAACTGCCGGTCAATTCGTAAGTACGGTCATCCGCGCGCTGCTTTC

» araC »

TAAACCCACTGGTGATACCATTGCGGAGCCTCCGGATGACGACCGTAGTGATGAATCTCTCTGGCGGGAACAGCAAAATATCACCCGGTGGCAACAAATCTCG
ATTTGGTGACCACTATGGTAAGCGCTCGGAGGCCACTGCTGGCATCACTACTTAGAGAGGACCGCCCTTGTGTTTTATAGTGGCCAGCCGTTTTGTTAAGAGC

» araC »

TCCCTGATTTTTACCACCCCTGACCGCAATGGTGAGATTGAGAATATAACCTTTTCATTTCCAGCGGTGGTTCGATAAAAAATCGAGATAACCGTTGGCCTCAA
AGGGACTAAAAAGTGGTGGGGACTGGCCTTACCCTTAACCTTATATTGAAAGTAAGGGTCGCCAGCCAGCTATTTTTTAGCTCTATTGGCAACCGGAGTT

» araC »

pJ2040 (7459 bp) (from 7384-7459 bp)

TCGGCGTTAAACCCGCCACCAGATGGGCATTAACGAGTATCCCGGCAGCAGGGGATCATTTTGGCCTTCAGCCAT
AGCCGCAATTTGGGCGGTGGTCTACCCGTAATTTGCTCATAGGGCCGTCGTCCCCTAGTAAAACGCGAAGTCGGTA

»« araC