

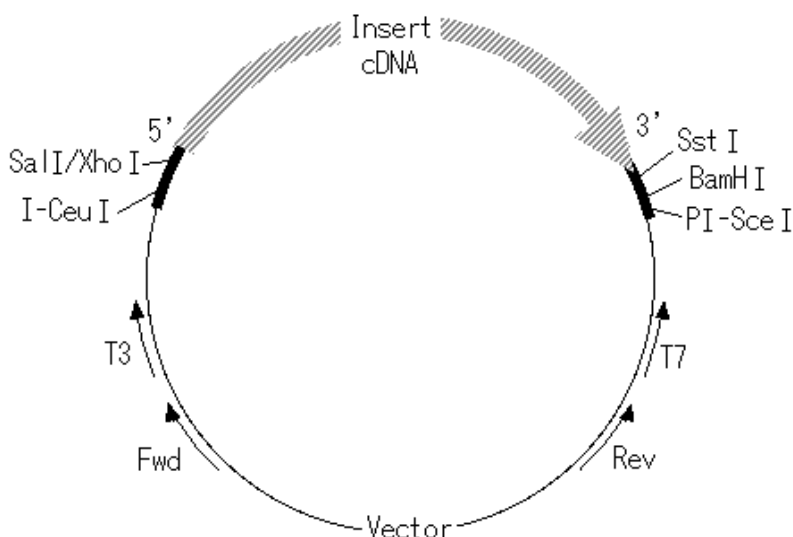
RIKEN FANTOM™ CLONES

Distributed through K.K. DNAFORM

Vector Map: FU/FV Re-Array Set

| | |
|---|----------------------------|
| Vector Name: | pFLCIII |
| Original Vector: | pBluescript KS(+) |
| 1st Primer for cDNA library construction: | 1st-BS primer (1st-BG tag) |
| 2nd Primer for cDNA library construction: | 2nd-NX/X primer |
| Cloning Site (5'>3'): | SalI/XhoI, SstI, BamHI |
| Sequence Primer (Fwd, 5'): | M13-21 |
| Sequence Primer (Rev, 3'): | 1233 |
| Selection marker: | 100 µg/ml Ampicillin |

FLCIII After Excision (1st-BS, 2nd-NX/X)



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CGACGTTGTA AACGACGGCCAGTGAATTGCGGCGAATTAACCTCACTAA
      Fwd Primer                               T3 Promotor
AGGGAACAAAGATGTGTAAC TATAACGGTCCTAAGGTAGCGAGTCGAGTTA
                               I-CeuI           SalI/XhoI
ATTAATTAATCCCCCCCCCCCC==cDNA==>AAAAAAAAAAAAAAAAAAAA

GAGCTCTTGGATCCTGCCATTTCATTACCTCTTTCTCCGCACCCGACATAG
      SstI   BamHI                               PI-SceI
ATGCATCGCCCTATAGTGAGTGGTATTACATAGCTGTTTCCTGTGTGAAA
      T7 Promotor                               Rev Primer
TTGTTATCCGCTATCCGCTCACAATTCCACACAACATACGA
    
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cDNA inserts can be release by digestion with I-CeuI and PI-SceI. Those are Homing Endonucleases that commonly do not cut within cDNA inserts. Note, the SalI and XhoI sites had been destroyed during cloning.

Sequence:

CACCTAAATTGTAAGCGTTAATATTTTGTAAAATTTCGCGTTAAATTTTTGTAAATCA
GCTCATTTTTTAAACCAATAGGCCGAAATCGGCAAAATCCCTTATAAATCAAAGAATAG
ACCGAGATAGGGTTGAGTGTGTTCCAGTTTGGAAACAAGAGTCCACTATTAAAGAACGT
GGACTCCAACGTCAAAGGGCGAAAAACCGTCTATCAGGGCGATGGCCCACTACGTGAAC
CATCACCTAATCAAGTTTTTTGGGGTCGAGGTGCCGTAAGCACTAAATCGGAACCCCT
AAAGGGAGCCCCGATTTAGAGCTTGACGGGGAAAGCCGGCGAACGTGGCGAGAAAGGA
AGGGAAGAAAGCGAAAGGAGCGGGCGCTAGGGCGCTGGCAAGTGTAGCGGTACGCTGC
CGGTAACCACCACCCCGCGCTTAATGCGCCGCTACAGGGCGGTCCCATTGCGCA
TTCAGGCTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCCTCTTCGCTATTACGCCA
GCTGGCGAAAGGGGATGTGCTGCAAGGCGATTAAGTTGGGTAACGCCAGGGTTTTCCC
AGTCACGACGTTGTAAAACGACGGCCAGTGAATTGCGCGCAATTAACCCTCACTAAAGG
Fwd Primer T3 Promotor
GAACAAAGATGTGTAAACTATAACGGTCCTAAGGTAGCGAGTCGAGTTAATTAAATTAAT
I-CeuI SalI/XhoI
CCCCCCCCCCCC==cDNA==>AAAAAAAAAAAAAAAAAGAGCTCTTGGATCCTGCCATT
SstI BamHI
TCATTACCTCTTTCTCCGCACCCGACATAGATGCATCGCCCCTATAGTGAGTCGTATTA
PI-SceI T7 Promotor
CATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTATCCGCTCACAAATCCACACAACATACG
Rev Primer
AGCCGGAAGCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAA
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TGCTACAGGCATCGTGGTGTACGCTCGTTCGTTTGGTATGGCTTCATTCAGCTCCGTT
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ATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTT
CCGCGCACATTTCCCCGAAAAGTGC

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