

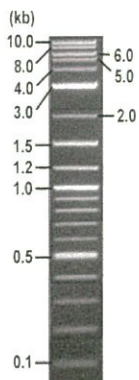


RIKEN DNA BANK

clone name : pgRNA_mMecp2_T1

- Clone ID : RDB_14014
- Lot : 14014_A6D7
- DNA Concentration : 25 nanogram/microliter
- Volume : 40 microliter
- Form : DNA solution in TE buffer
- Host : DH5 alpha
- Culture : LB medium
- Antibiotics : 25 microgram/ml kanamycin
- Purification : QIAGEN QIAprep Spin Miniprep kit
- Digestion by restriction enzyme

2-Log DNA Ladder
(NEB#N3200L),
125 ng/well



Electrophoresis : 100 nanogram DNA per lane ; 1% agarose gel , 1 x TAE Buffer

| Restriction enzyme | Expected size of fragment |
|--------------------|---------------------------|
| <u>NdeI</u> | <u>4.0</u> kbp |
| <u>XbaI</u> | <u>3.5, 0.5</u> kbp |
| _____ | _____ kbp |
| _____ | _____ kbp |
| _____ | _____ kbp |

● Confirmation of the insertion sequence

| Sequence name | Primer name | Sequence name | Primer name |
|---------------|-------------|---------------|-------------|
| Sequence - A | T7_20bp | Sequence - E | - |
| Sequence - B | - | Sequence - F | - |
| Sequence - C | - | Sequence - G | - |
| Sequence - D | - | Sequence - H | - |

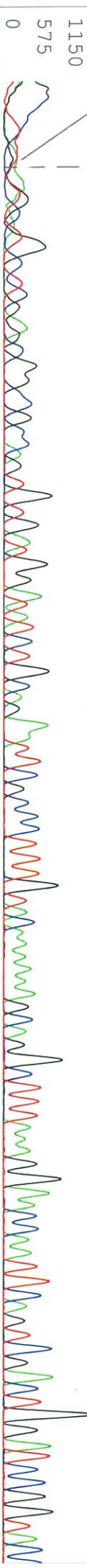
APPROVED BY :



primer name A : T7_20bp

5'-TAATAAGGACTGACTATAAGG-3

1 TC CTTTGA'GCATG C TCG ACC GGGCCGCCAG TG TG FTGG FTATC TGGCAG AATT CGCCCT TT TG TACAAAAGCA GGC TT TAAA GG AACCAAT TCA GTC GACTGG ATCCGGTAC
 10
 19
 28
 37
 46 EcoRI
 55
 64
 73
 82
 91 ScaI
 100 BamHI
 109 KpnI
 118
 127
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 145
 154
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 190
 199
 208
 217
 22



22AAGGTCGGGCGAGAAAGAGGGCCCTATTTCCCA T GATTCTCCATATTTTGCA TATTTGCA TATACGATACAGAGGCTGT TAGAGA GPTAATTAGAA TTAATTGACTGTTAAACA CAAGATAT
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 442
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460
 469
 478 XbaI
 48
 496
 505
 514
 523 EcoRI
 532
 541
 550 BamHI
 559 SacI

AAA GTGGCACCGAGTCCGGTCTTTTCTA GAACCAAGCTTTCTTGTACA AAGGCGAATTCCAGCACACTGGCGCCGTTACTAGTGGATCCGAGGCTCC
 460
 469
 478 XbaI
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 523 EcoRI
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 541
 550 BamHI
 559 SacI

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 67

3TACCAAGCTTGATGCATAGCTTGA GTATTC TAATA GTGTCA CCAATAA TAGCTTGGCGTAATCATGGTCCATAGCTGTTTCCCTGTGTGA AHTTGTTA TCCCGCTCACAATTCCCA
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KpnI H:ndIII
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