

pDream2.1/MCS

Name: pDream2.1/MCS

Description: GenScript pDream2.1/MCS is an excellent

expression vector. There are seven restriction enzyme sites

Cat. No. SD0222

Size: 10 ua

DATASHEET

Version: 2016-09-14

in MCS. The gene cloned into MCS can be expressed in any one of the three major protein expression systems: Bacteria, Insect cells and Mammalian cells. **Storage:** Store at -20°C.

p10 Promoter MCS **ORF603** hGH pA T7 ter nDream2.1/MCS (7159 bp) SV40 Promoter Ampicillin Neomycin SV40 pA **ORF1629** pUC ori-Flag Tag BamH I 1804 TAT ACC ATC GAT TAC AAG GAT GAC GAC GAT AAG GGA TCC ATA TGG TAC CTA ATG TTC CTA CTG CTG CTA TTC CCT AGG Met Asp Tyr Lys Asp Asp Asp Asp Lys Gly Ser EcoR1 Kpn I Sac I Hind III Bal II Not I 1843 GAG ATC TGG AAT TCG GTA CCG AGC TCA AGC TTG CGG CCG CTC TAG ACC TTA AGC CAT GGC TCG AGT TCG AAC GCC GGC Glu lle Trp Asn Ser Val Pro Ser Ser Ser Leu Arg Pro SP6 Primer 1882 CCTATAGTGTCACCTAAATCGTAACCCAGC

GGATATCACAGTGGATTTAGCATTGGGTCG

CMV Promoter

P10 Promoter	57 - 1770
ORF603	45 - 1011
ORF1629	4921 - 5427
CMV Promoter:	1026 - 1608
SV40 Promoter:	3000 - 3345
Neomycin	3386 - 4180
pUC ori	5605 - 6236
Ampicillin	6237 - 7097
MCS	1837 - 1875

Forward Sequencing Primer:

DA0009: T7 (TAATACGACTCACTATAGGG)

Reverse Sequencing Primer:

DA0008: SP6 (TACGATTTAGGTGACACTATAG)

Features:

1. CMV promoter* is for high-level constitutive expression of genes in a variety of mammalian cell lines.

- 2. T7 promoter is for convenient expression of genes in bacteria and *in vitro* transcription/translation analysis.
- 3. P10 baculovirus promoter is for high-level expression of genes in baculovirus-infected insect cells.

4. A Flag tag sequence is placed before MCS for the single column purification and specific detection of the fused protein using specific and sensitive anti-Flag antibodies.

5. The Flag tag sequence is also the cleavage site by enterokinase (EK) to generate an authentic protein starting with Methionine.

* Limited Use Label License: The use of CMV promoter is covered under U. S. Patent No. 5,168,062 and 5,385,839 owned and licensed by the University of Iowa Research Foundation and is sold for research use only. Commercial users must obtain a license to these patents directly from the University of Iowa Research Foundation (UIRF), 214 Technology Innovation Center, Iowa City, Iowa 52242. For further information, please contact the Associate Director of UIRF, at 319-335-4546.

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