

pCMV-C-Flag

产品编号	产品名称	包装
D11111 μg	pCMV-C-Flag	μg
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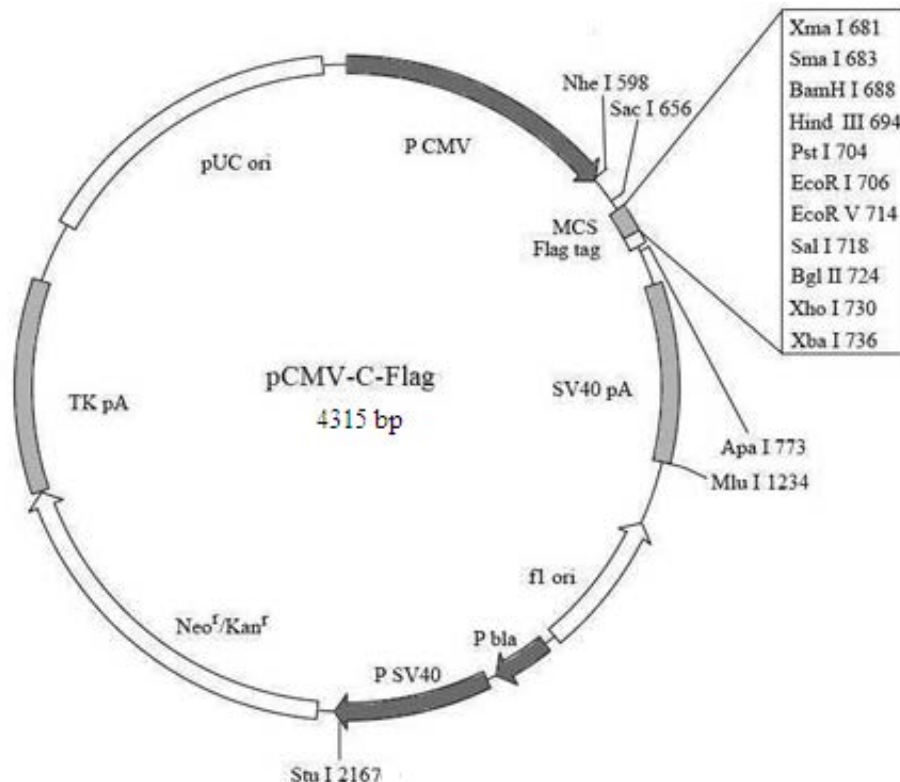
产品简介:

➤ pCMV-C-Flag是碧云天自行研发的用于在哺乳动物细胞中表达C端和Flag tag (Flag标签)融合的目的蛋白的表达质粒。含有CMV启动子可以高效启动目的蛋白在细胞中的表达；在多克隆位点的3'端含有一个可以编码Flag标签的序列，因此可以表达出含有Flag标签的融合蛋白，可以方便地使用抗Flag的抗体来识别目的蛋白，有利于目的蛋白检测和分离纯化。质粒为卡那霉素抗性。转染细胞后，可使用G418筛选稳定表达目的蛋白的细胞株。

➤ pCMV-C-Flag质粒的主要信息如下:

Feature	Nucleotide	Position
CMV promoter		1-602
T3 promoter and T3 primer binding site		620-639
multiple cloning site		680-740
c-Flag tag		741-764
T7 promoter and T7 primer binding site		817-838
SV40 polyA signal		850-1233
f1 origin of ss-DNA replication		1371-1675
bla promoter		1700-1824
SV40 promoter		1844-2182
neomycin/kanamycin resistance ORF		2217-3008
HSV-thymidine kinase (TK) polyA signal		3009-3467
pUC origin		3596-4263

➤ pCMV-C-Flag质粒的图谱如下:



➤ pCMV-C-Flag的多克隆位点的详细图谱如下:

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                XmaI                      PstI
                Small BamHI HindIII
SacI          GAGCTCCACC GCGGTGGCGG CCGCTCTAGC CCGGGCGGAT CCAAGCTTCT
651          CTCGAGGTGG CGCCACCGCC GCGGAGATCG GGCCCGCCTA GGTTCGAAGA
                EcoRI EcoRV SacI  BglIII XhoI  XbaI  D Y K D
701          GCAGGAATTC GATATCGTCG ACAGATCTCT CGAGTCTAGA GATTACAAGG
                tag_____
                D D D K  ApaI
751          ATGACGACGA TAAGTAA GGG CCCGGTACCT TAATTAATTA AGGTACCAGG
                TACTGCTGCT ATTCATT CCC GGGCCATGGA ATTAATTAAT TCCATGGTCC
    
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➤ pCMV-C-Flag中没有的酶切位点(Restriction enzymes that do not cut pCMV-C-Flag)包括:

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Afl II      Age I      Ahd I      Asc I      Bbs I      Bbv II     Blp I
Bsg I       BsiW I     BsmB I     BspM II    BsrG I     BssH II    Bst1107 I
BstE II     Ear I      Eco47 III  Eco72 I    EcoN I     Esp I      Fse I
Nru I       PflM I     Pme I      Pml I      PpuM I     Psp1406 I  Sap I
Sca I       Spe I
    
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➤ pCMV-C-Flag中的单酶切位点(Restriction enzymes that cut pCMV-C-Flag once)包括:

Nde I	CA`TA,TG	241	Pvu I	CG,AT`CG	851
SnaB I	TAC GTA	347	Bcl I	T`GATC,A	1005
Nhe I	G`CTAG,C	598	Mun I	C`AATT,G	1098
Sac I	G,AGCT`C	656	Hpa I	GTT AAC	1111
Sac II	CC,GC`GG	663	Mlu I	A`CGCG,T	1234
BstX I	CCAN,NNNN`NTGG	664	Dra III	CAC,NNN`GTG	1464
Not I	GC`GGCC,GC	669	Sfi I	GGCCN,NNN`NGGCC	2121
PspA I	C`CCGG,G	681	BseR I	GAGGAG 16/14	2164
Xma I	C`CCGG,G	681	Stu I	AGG CCT	2167
Srf I	GCCC GGGC	683	Cla I	AT`CG,AT	2186
Sma I	CCC GGG	683	Kas I	G`GCGC,C	2345
BamH I	G`GATC,C	688	Nar I	GG`CG,CC	2346
HinD III	A`AGCT,T	694	Ehe I	GGC GCC	2347
Pst I	C,TGCA`G	704	Bbe I	G,GCGC`C	2349
EcoR I	G`AATT,C	706	Msc I	TGG CCA	2428
EcoR V	GAT ATC	714	Tth111 I	GACN`N,NGTC	2464
Sal I	G`TCGA,C	718	BsrD I	GCAATG, 8	2579
Acc I	GT`MK,AC	719	Bsp1286 I	G,DGCH`C	2649
Bgl II	A`GATC,T	724	Rsr II	CG`GWC,CG	2862
Paer7 I	C`TCGA,G	730	BsiC I	TT`CG,AA	3028
Xho I	C`TCGA,G	730	BstB I	TT`CG,AA	3028
Xba I	T`CTAG,A	736	Bsa I	GGTCTC 7/11	3335
Bsp120 I	G`GGCC,C	769	HgiE II	ACCNNNNNNGGT-1/13	3675
Apa I	G,GGCC`C	773	ApaL I	G`TGCA,C	3950

➤ pCMV-C-Flag质粒中对于插入片段进行测序时, 推荐使用的正向测序引物T3和反向测序引物T7的序列如下:

T3 primer (620-639): 5' AATTAACCCTCACTAAAGGG 3'
 T7 primer (817-838): 5' GTAATACGACTCACTATAGGGC 3'

➤ pCMV-C-Flag的全序列信息请参考碧云天网站上该质粒的信息。

包装清单:

产品编号	产品名称	包装
D管/管 μg	pCMV-C-Flag	μg
D管/管 μg	pCMV-C-Flag	μg
—	说明书	份

保存条件:

-80℃保存。

注意事项:

➤ 本质粒未经碧云天书面许可不得用于任何商业用途, 也不得移交给订货人所在实验室外的任何个人或单位。

- 本产品仅限于专业人员的科学研究用，不得用于临床诊断或治疗，不得用于食品或药品，不得存放于普通住宅内。
- 为了您的安全和健康，请穿实验服并戴一次性手套操作。

使用说明：

1. 首次使用 μg 包装的本产品时，请先取少量本质粒转化大肠杆菌，进行质粒小量、中量或大量抽提后再用于后续用途。抽提获得的质粒可以通过酶切电泳进行鉴定，或通过测序进行鉴定。
2. μg 包装的本产品浓度为 $. \mu\text{g}/\mu\text{l}$ ，共 ml。可以直接用于酶切或者转染细胞。
3. pCMV-C-Flag质粒在其多克隆位点适当酶切后可以插入待表达的目的基因，需注意插入基因片段和tag之间的读码框要一致，即需要避免发生移码突变。构建的质粒可以用常规方法转染细胞。

使用本产品的文献：

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