

pCMV-C-Flag

产品编号	产品名称	包装
D2632-1μg	pCMV-C-Flag	1μg
D2632-100μg	pCMV-C-Flag	100μg

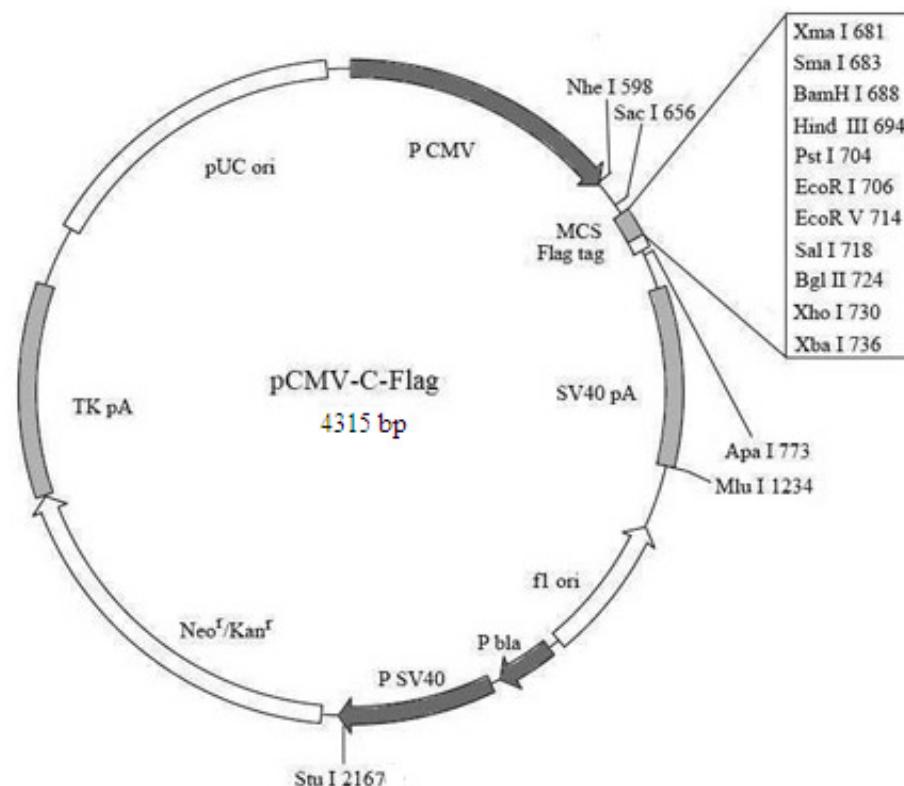
产品简介:

➤ 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:

	XmaI	Small	BamHI	HindIII	PstI						
SacI											
651	GAGCTCCACC	GCGGTGGCGG	CCGCTCTAGC	CCGGGCAGAT	CCAAGCTTCT						
	CTCGAGGTGG	CGCCACCGCC	GGCGAGATCG	GGCCCGCTA	GGTCGAAGA						
				Flag							
EcoRI	EcoRV	SacI	BglII	XhoI	XbaI	D	Y	K	D		
701	GCAGGAATTC	GATATCGTCG	ACAGATCTCT	CGAGTCTAGA		GATTACAAGG					
	CGTCCTTAAG	CTATAGCAGC	TGTCTAGAGA	GCTCAGATCT		CTAATGTTCC					
						<u>tag</u>					
	D	D	D	K		ApaI					
751	ATGACGACGA	TAAGTAAGGG	CCCGGTACCT	TAATTAATTA	AGGTACCAAGG						
	TACTGCTGCT	ATTCATTCCC	GGGCCATGGA	ATTAATTAAT	TCCATGGTCC						

- pCMV-C-Flag中没有的酶切位点(Restriction enzymes that do not cut pCMV-C-Flag)包括:

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					

- 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' AATTAACCCCTCACTAAAGGG 3'
 T7 primer (817-838): 5' GTAATACGACTCACTATAGGGC 3'

- pCMV-C-Flag的全序列信息请参考碧云天的网站上该质粒的信息。

包装清单：

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D2632-1μg	pCMV-C-Flag	1μg
D2632-100μg	pCMV-C-Flag	100μg
—	说明书	1份

保存条件：

-20°C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1 μ g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. 100 μ g包装的本产品质粒浓度为0.1 μ g/ μ l，共1ml。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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