



碧云天生物技术/Beyotime Biotechnology
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pCMV-N-Flag

产品编号	产品名称	包装
D2722-1μg	pCMV-N-Flag	1μg
D2722-100μg	pCMV-N-Flag	100μg

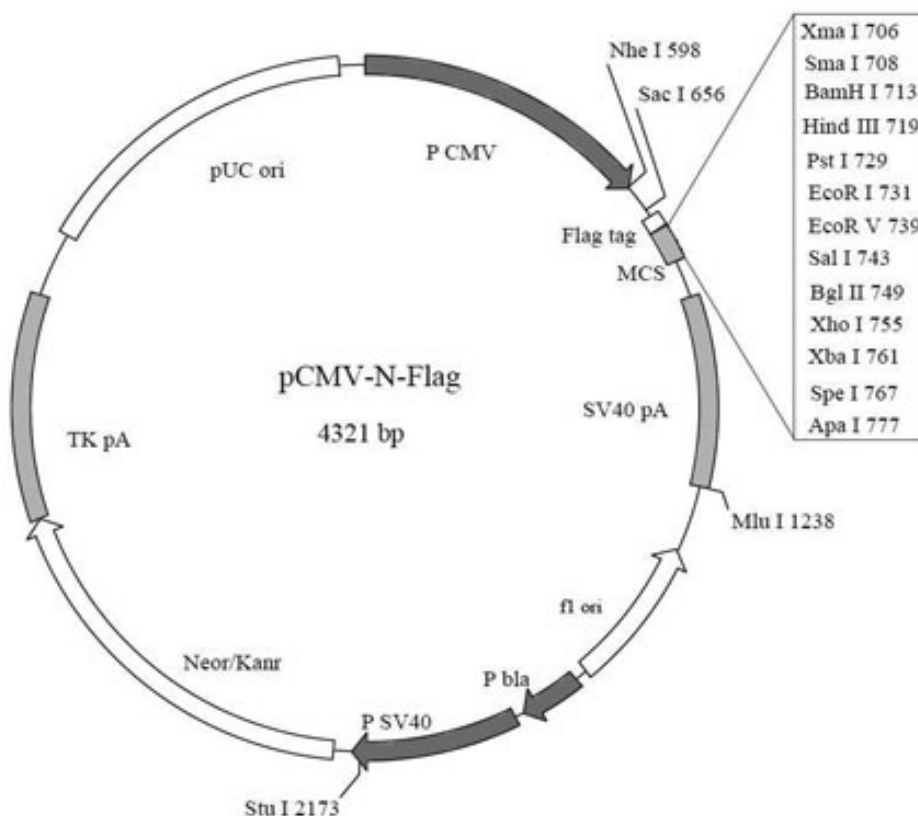
产品简介:

➤ pCMV-N-Flag是碧云天自行研发的用于在哺乳动物细胞中表达N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5'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。

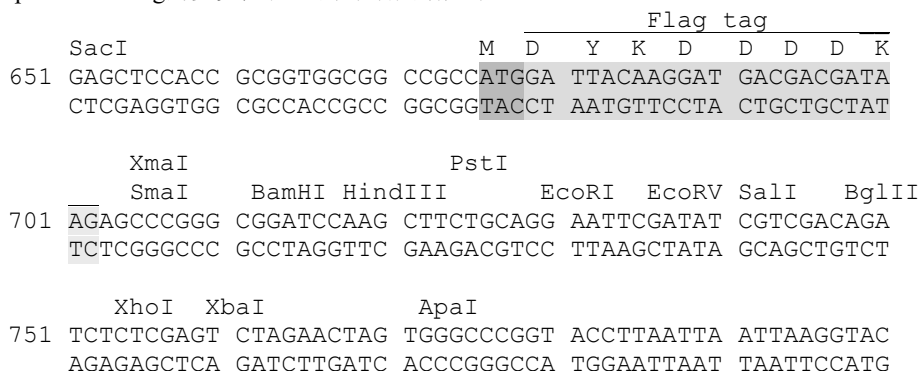
➤ pCMV-N-Flag质粒的主要信息如下:

Feature	Nucleotide	Position
CMV promoter		1-602
T3 promoter and T3 primer binding site		620-639
Flag tag		679-702
multiple cloning site		705-778
T7 promoter and T7 primer binding site		821-842
SV40 polyA signal		854-1237
f1 origin of ss-DNA replication		1375-1681
bla promoter		1706-1830
SV40 promoter		1850-2188
neomycin/kanamycin resistance ORF		2223-3014
HSV-thymidine kinase (TK) polyA signal		3015-3473
pUC origin		3602-4269

➤ pCMV-N-Flag质粒的图谱如下:



➤ pCMV-N-Flag的多克隆位点的详细图谱如下:



➤ pCMV-N-Flag中没有的酶切位点(Restriction enzymes that do not cut pCMV-N-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	Spl I					

➤ pCMV-N-Flag中的单酶切位点(Restriction enzymes that cut pCMV-N-Flag once)包括:

Nde I	CA`TA, TG	241	Pvu I	CG, AT`CG	855
SnaB I	TAC GTA	347	Bcl I	T`GATC, A	1009
Nhe I	G`CTAG, C	598	Mun I	C`AATT, G	1102
Sac I	G, AGCT`C	656	Hpa I	GTT AAC	1115
Sac II	CC, GC`GG	663	Mlu I	A`CGCG, T	1238
BstX I	CCAN, NNNN`NTGG	664	Dra III	CAC, NNN`GTG	1468
Not I	GC`GGCC, GC	669	Sfi I	GGCCN, NNN`NGGCC	2127
PspA I	C`CCGG, G	706	BseR I	GAGGAG 16/14	2170
Xma I	C`CCGG, G	706	Stu I	AGG CCT	2173
Srf I	GCCC GGGC	708	Cla I	AT`CG, AT	2192
Sma I	CCC GGG	708	Kas I	G`GCGC, C	2351
BamH I	G`GATC, C	713	Nar I	GG`CG, CC	2352
Hind III	A`AGCT, T	719	Ehe I	GGC GCC	2353
Pst I	C, TGCA`G	729	Bbe I	G, GCGC`C	2355
EcoR I	G`AATT, C	731	Msc I	TGG CCA	2434
EcoR V	GAT ATC	739	Tth111 I	GACN`N, NGTC	2470
Sal I	G`TCGA, C	743	BsrD I	GCAATG, 8	2585
Acc I	GT`MK, AC	744	Bsp1286 I	G, DGCH`C	2655
Bgl II	A`GATC, T	749	Rsr II	CG`GWC, CG	2868
Paer7 I	C`TCGA, G	755	BsiC I	TT`CG, AA	3034
Xho I	C`TCGA, G	755	BstB I	TT`CG, AA	3034
Xba I	T`CTAG, A	761	Bsa I	GGTCTC 7/11	3341
Spe I	A`CTAG, T	767	HgiE II	ACCNNNNNNGGT-1/13	3681
Bsp120 I	G`GGCC, C	773	ApaL I	G`TGCA, C	3956
Apa I	G, GGCC`C	777			

➤ pCMV-N-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 (821-842): 5' GTAATACGACTCACTATAGGGC 3'

➤ pCMV-N-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
D2722-1μg	pCMV-N-Flag	1μg
D2722-100μg	pCMV-N-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1μg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. 100μg包装的本产品质粒浓度为0.1μg/μl, 共1ml。可以直接用于酶切或者转染细胞。
3. pCMV-N-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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