

pLenti-PSMD13-sgRNA

产品编号	产品名称	包装
L30165	pLenti-PSMD13-sgRNA	5μg

产品简介:

- pLenti-PSMD13-sgRNA (PSMD13基因敲除质粒)是一种在动物细胞中可以同时表达Cas9、目的基因的sgRNA和puromycin抗性基因的质粒。用于在动物细胞中直接基于CRISPR/Cas9技术敲除目的基因，或者通过包装慢病毒后基于CRISPR/Cas9技术敲除目的基因。本质粒中sgRNA的有效性已经通过T7EI法的验证。
- 本质粒在细菌中为Amp抗性，全长约13,000bp。本质粒的关键图谱信息请参考图1。本质粒可直接转染细胞用于目的基因的CRISPR/Cas9敲除，以及通过puromycin筛选稳定细胞株。也可以与pMDLg、Rev及VSV-g共转HEK293T细胞进行重组慢病毒(lentivirus)的包装，然后再用于感染细胞或组织并进行目的基因的CRISPR/Cas9敲除。



图1. 表达sgRNA、Cas9和puromycin抗性的pLenti-sgRNA质粒关键图谱信息。

- 本质粒中的sgRNA基于碧云天研发的CRISPR/Cas9 sgRNA快速筛选和验证体系获得，sgRNA的有效性已经通过T7EI法验证。
- 本质粒用于实验时，建议同时选购无任何靶向的对照质粒pLenti-Control-sgRNA (L00011)或靶向GFP的对照质粒pLenti-GFP-sgRNA (L00013)。
- 碧云天同时提供基于CRISPR/Cas9技术的PSMD13基因敲除的质粒(L30165 pLenti-PSMD13-sgRNA)、慢病毒(L30166 PSMD13 Knockout Lentivirus)、HEK293T细胞(L30167 PSMD13 Knockout HEK293T Cells)、HEK293T敲除细胞的RIPA裂解液(L30168 PSMD13 Knockout HEK293T RIPA Lysate)、HEK293T敲除细胞的Trizol裂解液(L30169 PSMD13 Knockout HEK293T Trizol Lysate)等产品，具体请在碧云天网站查询或在本产品网点击相应产品。
- PSMD13基因的基本信息如下：

Species	Gene Symbol	Gene ID	GenBank Accession	Transcript
Human	PSMD13	5719	BC001100	NM_002817

About the gene	
Official Symbol	PSMD13
Previous Symbol	-
Official Full Name	proteasome 26S subunit, non-ATPase 13
Synonyms	p40.5; Rpn9
Location	11p15.5
Gene Type	protein-coding gene
Uniprot ID	Q9UNM6
Pathway/Library	others
Gene Summary	The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a non-ATPase subunit of the 19S regulator. Two transcripts encoding different isoforms have been described.

包装清单:

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要后续可以通过将细胞稀释至2.5个/ml, 然后按照每孔200 μ l接种到96孔板中(每孔平均0.5个细胞), 筛选单克隆细胞株。

5. 基因编辑的鉴定:

- 对于多克隆细胞, 可以通过T7 Endonuclease I (T7EI)进行鉴定, 即提取细胞的基因组DNA, 在sgRNA序列两边设计引物进行PCR扩增, 然后进行T7EI酶切, 具体请参考碧云天的T7 Endonuclease I (CRISPR等基因突变鉴定用) (D7080)或基因组编辑突变检测试剂盒(D0508); 也可以通过相应的抗体进行检测。
- 对于单克隆细胞, 可通过PCR扩增出sgRNA靶向的基因片段后进行常规测序的方式进行验证, 同时也可以使用相应的抗体进行检测。

相关产品:

产品编号	产品名称	包装
L00002-5 μ g	CRISPR/Cas9 Packaging Vectors Set A	5 μ g/each
L00002-100 μ g	CRISPR/Cas9 Packaging Vectors Set A	100 μ g/each
L00011-5 μ g	pLenti-Control-sgRNA	5 μ g
L00011-100 μ g	pLenti-Control-sgRNA	100 μ g
L00013-5 μ g	pLenti-GFP-sgRNA	5 μ g
L00013-100 μ g	pLenti-GFP-sgRNA	100 μ g
C0222	青霉素-链霉素溶液(100X)	100ml
C0351-1ml	Polybrene (Hexadimethrine Bromide)	1ml
C0351-50mg	Polybrene (Hexadimethrine Bromide)	50mg
C0521	Lipo293 TM 转染试剂	0.5/1.5/7.5ml
C0526	Lipo6000 TM 转染试剂	0.5/1.5/7.5ml
C0533	Lipo8000 TM 转染试剂	0.5/1.5/7.5ml
D0378	Stbl3甘油菌	200 μ l
ST551-10mg	Puromycin Dihydrochloride (嘌呤霉素)	10mg/ml \times 1ml
ST551-50mg	Puromycin Dihydrochloride (嘌呤霉素)	10mg/ml \times 5ml
ST551-250mg	Puromycin Dihydrochloride (嘌呤霉素)	250mg
ST1380-500mg	Polybrene (\geq 94%, Reagent grade)	500mg
ST1380-2g	Polybrene (\geq 94%, Reagent grade)	2g
ST1380-10g	Polybrene (\geq 94%, Reagent grade)	10g
FF345-10pcs	针头滤器(0.45 μ m/28mm, PES, Sterile, Sartorius分装)	10个/袋
FF345T-10pcs	针头滤器(0.45 μ m/28mm, PES, Sterile, 进口分装)	10个/袋
FF345-50pcs	针头滤器(0.45 μ m/28mm, PES, Sterile, Sartorius原装)	50个/盒
FF365-10pcs	BeyoGold TM 针头滤器(0.45 μ m/33mm, PES, Sterile)	10个/袋
FF365-100pcs	BeyoGold TM 针头滤器(0.45 μ m/33mm, PES, Sterile)	100个/盒
FF375-10pcs	BeyoGold TM 针头滤器(0.45 μ m/13mm, PES, Sterile)	10个/袋
FF375-100pcs	BeyoGold TM 针头滤器(0.45 μ m/13mm, PES, Sterile)	100个/盒
FUF158-2pcs	超滤管(15ml, 100kDa MWCO, PES, Sartorius分装)	2个/袋
FUF158-12pcs	超滤管(15ml, 100kDa MWCO, PES, Sartorius分装)	12个/袋

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