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pp53-TA-luc (报告基因质粒)

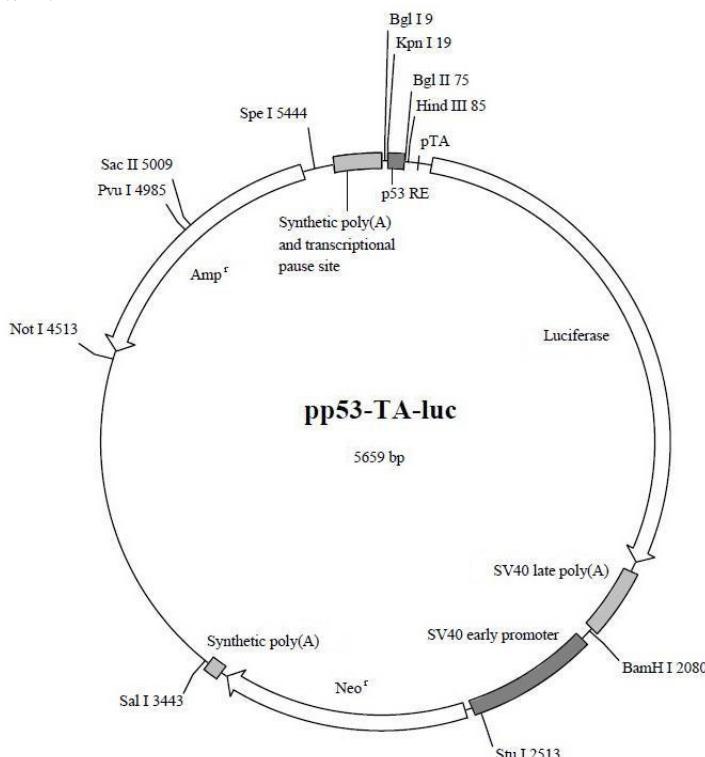
产品编号	产品名称	包装
D2223-1μg	pp53-TA-luc (报告基因质粒)	1μg
D2223-100μg	pp53-TA-luc (报告基因质粒)	100μg

产品简介:

- pp53-TA-luc (报告基因质粒)是碧云天自行研发的用于检测p53转录活性水平的报告基因质粒。pp53-TA-luc是以碧云天的pGL6-TA质粒为模板，在其多克隆位点插入了多个p53结合位点，可以高灵敏度地检测p53的激活水平。
- pGL6-TA质粒是用于在哺乳动物细胞中进行萤火虫萤光素酶(firefly luciferase)报告基因检测的新一代质粒。该报告基因质粒比Promega公司的pGL3系列有了全面的改进，一方面对于luciferase的编码进行了改进，确保能更好地在哺乳动物细胞中进行表达，同时对整个质粒中所有可以被预测出的可能的转录因子结合位点全部进行了适当的突变处理，在保持原有功能不变的情况下，使各种转录因子在质粒上的非特异性结合降到最低。
- pp53-TA-luc质粒的主要信息如下：

Base pairs	5659
p53 response element	20-73
Minimal TA promoter (pTA)	96-118
luc2 reporter gene	160-1812
SV40 late poly(A) signal	1847-2068
SV40 early enhancer/promoter	2116-2534
Synthetic neomycin phosphotransferase	
(Neor) coding region	2559-3353
Synthetic poly(A) signal	3378-3426
Reporter Vector primer 4 (RVprimer4) binding region	3493-3512
ColeE1-derived plasmid replication origin	3750
Synthetic Beta-lactamase (Ampr) coding region	4541-5401
Synthetic poly(A) signal/transcriptional pause site	5506-5659
Reporter Vector primer 3 (RVprimer3) binding region	5608-5627

- pp53-TA-luc质粒的图谱如下：



- pp53-TA-luc的多克隆位点及p53 response element的详细图谱如下:

BglI	KpnI	p53 response element
1 GGCCTTAACGT	GCCGGTACCA	CGTTGCCTT GCCTGGACTT GCCTGGCCTT
CCGGATTGAC	CGGCCATGGT	GCAAACGGAA CGGACCTGAA CGGACCGGAA

BglIII	HindIII	
51 GCCTTGGACA	TGCCCGGGCT	GTCAAGATCTG CAGAACGCTTA GACACTAGAG
CGGAACCTGT	ACGGGCCCGA	CAGTCAGAC GTCTCGAAT CTGTGATCTC

Minimal TA promoter		
101 GGTATATAAT	GGAAGCTCGA	CTTCCAGCTT GGCAATCCGG TACTGTTGGT
CCATATATTA	CCTTCGAGCT	GAAGGTCGAA CCGTTAGGCC ATGACAACCA

- pp53-TA-luc中没有的酶切位点(Restriction enzymes that do not cut pp53-TA-luc)包括:

Aat II	Afl I	Asc I	Ase I	Bsa I	BsaA I	BsiW I	BspM II
BssH II	Eco72 I	EcoR I	EcoR V	Mlu I	Nde I	Nhe I	Nru I
PaeR7 I	PflM I	Pme I	Pml I	Psp1406 I	Rsr II	Sac I	SnaB I
Spl I	Tth111 I	Vsp I	Xcm I	Xho I	Xmn I		

- pp53-TA-luc中的单酶切位点(Restriction enzymes that cut pp53-TA-luc once)包括:

Sfi I	GGCCN, NNN`NGGC	9	EcoN I	CCTNN`N, NNAGG	3034
Bgl I	GCCN, NNN`NGGC	9	BsiC I	TT`CG, AA	3429
Acc65 I	G`GTAC, C	15	BstB I	TT`CG, AA	3429
Asp718	G`GTAC, C	15	Sal I	G`TCGA, C	3443
Kpn I	G, GTAC`C	19	Afl III	A`CRYG, T	3693
PspA I	C`CCGG, G	64	ApaL I	G`TGCA, C	4007
Xma I	C`CCGG, G	64	HgiE II	ACCN>NNNNNGGT -1/134272	
Srf I	GCCC GGGC	66	Not I	GC`GGCC, GC	4513
Sma I	CCC GGG	66	BstX I	CCAN, NNNN`NTGG	4537
Bgl II	A`GATC, T	75	BstE II	G`GTNAC, C	4540
Hind III	A`AGCT, T	85	Ahd I	GACNN, N`NNGTC	4615
BsrG I	T`GTAC, A	651	Bsu36 I	CC`TNA, GG	4971
Dra III	CAC, NNN`GTG	1307	Pvu I	CG, AT`CG	4985
Gsu I	CTGGAG 21/19	1540	Sac II	CC, GC`GG	5009
Bpm I	CTGGAG 22/20	1541	Bst1107 I	GTA TAC	5125
Apo I	R`AATT, Y	1923	Xca I	GTA TAC	5125
Mun I	C`AATT, G	1987	Spe I	A`CTAG, T	5444
BamH I	G`GATC, C	2080	BsmA I	GTCTC`/9	5456
Stu I	AGG CCT	2513	BsmB I	CGTCTC 7/11	5457

- pp53-TA-luc质粒中推荐使用的测序引物序列如下:

RVprimer3 (5608-5627):

CTA GCA AAA TAG GCT GTC CC

- pp53-TA-luc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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D2223-100μg	pp53-TA-luc (报告基因质粒)	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。

- pp53-TA-luc可以用常规的细胞转染方法转染细胞。检测时可采用碧云天的萤火虫萤光素酶报告基因检测试剂盒(RG005/RG006)或双萤光素酶报告基因检测试剂盒(RG027/RG028)。
- 紫外照射、离子辐射等可以导致DNA损伤的作用或试剂可以激活p53，可以用作pp53-TA-luc报告基因检测时的阳性对照。

使用本产品的文献：

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