

pRI-GFP Vector

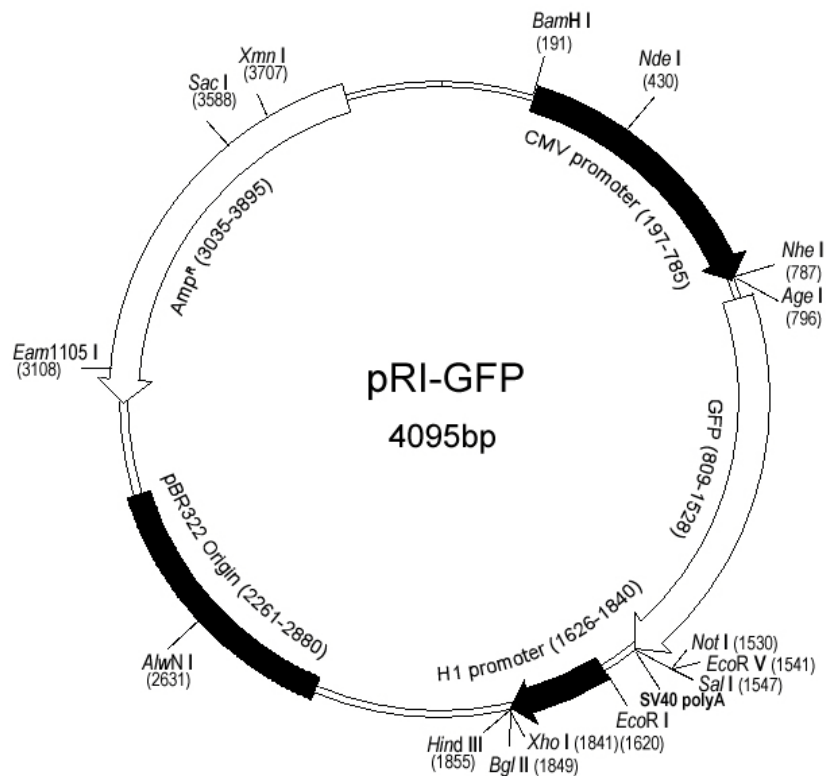
V6406

	Cat. No.
pRI-Basic	V6405
pRI-GFP	V6406
pRI-Neo	V6407
pRI-GFP/Neo	V6408
pRI-Hygro	V6409
pRI-GFP/Hygro	V6410

pRI-GFP 载体中的 H1 启动子可在哺乳动物细胞内转录产生短链 RNA 分子。RNA 分子在细胞内形成 shRNA，经过 RNA 酶剪切后形成双链 siRNA。人工合成的寡核苷酸序列退火形成双链后通过 XhoI、BglII 位点插入载体中。载体中的 eGFP 蛋白由 CMV 启动子启动转录，可以在多数哺乳动物细胞中高效表达，为监测转染效率提供了标记。pRI-GFP 载体在原核生物表达氨苄抗性基因。推荐测序引物：M13F-47 primer 或 M13R-48 primer。
M13F-47: CCCAGTCACGACGTTGTAAAACG (1588-1619)
M13R-48: AGCGGATAACAATTTACACAGGA (1887-1909)

Vector Features

CMV promoter	(197-785)
GFP	(809-1528)
SV40 polyA	(1626-1640)
H1 promoter	(1626-1840)
pBR322 Origin	(2261-1880)
Amp Resistant	(3035-3895)
EcoRI	(1620)
XhoI	(1841)
BglII	(1849)
HindIII	(1855)
M13F-47	(1588-1619)
M13R-48	(1887-1909)



插入序列设计举例

XhoI Target Sequence: sense *Hairpin* Target Sequence: antisense
TCGACCCATCGACTAGCCACTTAGACTTCAAGAGAGTCTAAGTGGCTAGTCGATTTTTT
GGGTAGCTGATCGGTGAATCTGAAGTTCTCTCAGATTCACCGATCAGCTAAAAAAGTAG
BglI

终产物

AUCGACUAGCCACUUGAGACUU
UUUAGCUGAUCGGUGAAUCUG

pRI-GFP Restriction Sites

Enzyme	No	Location		
AatII	6	321	374	457
		1637	4030	
AclI	2	3334	3707	
AgeI	1	796		
AhaIII	3	2974	2993	3685
Alw44I	3	177	2529	3775
AlwNI	1	2631		
ApaBI	1	1754		
Apal	1	1666		
ApalI	3	177	2529	3775
AsuII	1	1624		
BamHI	1	191		
BbeI	1	1743		
BglI	4	286	408	479
BglII	1	1849		
Bsil	4	989	2388	3772
Bsp1407I	1	1518		
BspHI	3	2935	3943	4048
BssHII	1	1692		
BstD102I	4	2148	3949	1647
Csp45I	1	1624		
DraI	3	2974	2993	3685
DrdI	2	97	2323	
EagI	1	1530		
Eam1105I	1	3108		
Eco31I	2	1827	3169	
Eco47III	1	792		
Eco52I	1	1530		
Eco57I	5	962	1205	2763
		3775		
EcoRI	1	1620		
EcoRV	1	1541		
EheI	1	1741		
HindIII	1	1855		
MstI	1	3330		
NarI	1	1740		
NcoI	2	556	807	
NdeI	1	430		
NheI	1	787		
NotI	1	1530		
PinAI	1	796		
PvuI	1	3478		
PvuII	1	2039		
Sall	1	1547		

Enzyme	No	Location		
SapI	1	2099		
Scal	1	3588		
Scil	1	1843		
SnaBI	1	536		
SspI	2	1751	3912	
VspI	4	203	1986	2045
XhoI	1	1841		
XmaIII	1	1530		
Xmnl	1	3707		
XorII	1	3478		
Non Cut Enzymes				
Acc65I	AccIII	AfIII	Ascl	Asp718I
AvrII	Ball	BbvII	BclI	Bpu1102
Bsc91I	BsmI	BspMI	BspMII	BstEII
BstXI	Bsu36I	Clal	CspI	CvnI
DraIII	Ecl136II	Eco56I	Eco72I	EcoICRI
EcoNI	EspI	FseI	HpaI	I-Ppol
KpnI	MfeI	Mlu113I	MluI	MscI
MstII	NaeI	NruI	NsiI	PacI
PflMI	PmaCI	PmeI	PstI	RleAI
SacI	SacII	SauI	SfiI	SgrAI
Smal	SpeI	SphI	SplI	Spol
SrfI	SstI	SstII	StuI	SunI
Swal	Tth111I	XbaI	XcmI	XmaI