

# pRI-GFP/Neo Vector

V6408

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

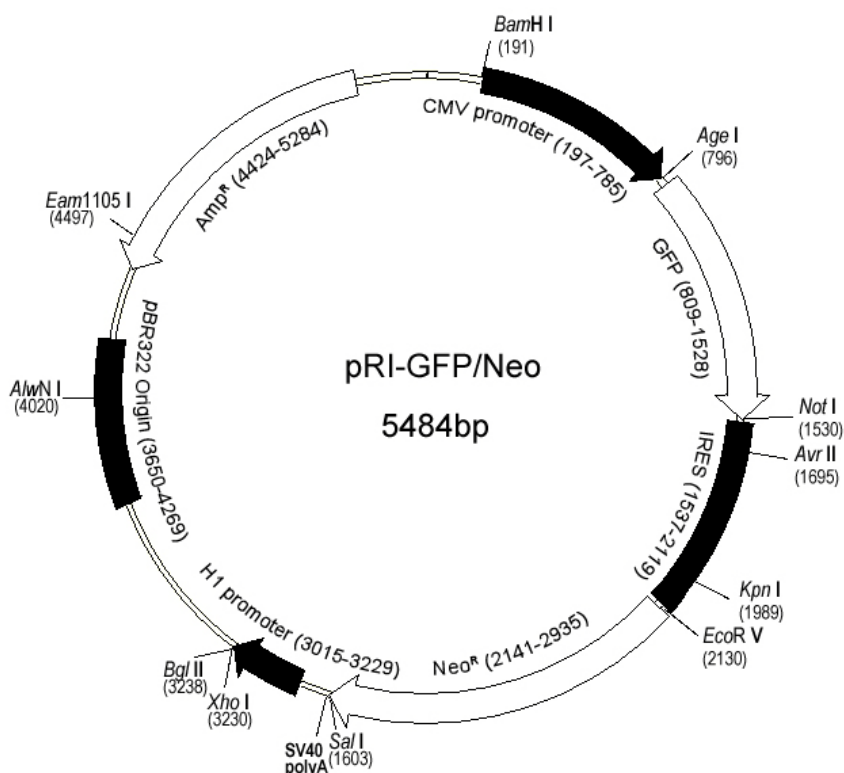
pRI-GFP/Neo 载体中的 H1 启动子在哺乳动物细胞内转录产生短链 RNA 分子。RNA 分子在细胞内形成 shRNA，经过 RNA 酶剪切后形成双链 siRNA。人工合成的寡核苷酸序列退火形成双链后通过 XhoI、BglII 位点插入载体中。载体中的 eGFP 蛋白由 CMV 启动子启动转录，可以在多数哺乳动物细胞中高效表达，为监测转染效率提供了标记。pRI-GFP/Neo 载体表达 neomycin 抗性基因，可用于 G418 筛选稳定表达细胞株。推荐测序引物：M13F-47 primer 或 M13R-48 primer。

M13F-47: CCCAGTCACGACGTTGTAAAACG (2977-2999)

M13R-48: AGCGGATAACAATTTACACAGGA (3276-3298)

## Vector Features

CMV promoter	(197-785)
GFP	(809-1528)
IRES	(1537-2119)
Neo Resistant	(2141-2935)
H1 promoter	(3015-3229)
pBR322 Origin	(3650-4269)
Amp Resistant	(4424-5284)
BamHI	(191)
XhoI	(3230)
BglII	(3238)
M13F-47	(2977-2999)
M13R-48	(3276-3298)



### 插入序列设计举例

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

### 终产物

AUCGACUAGCCACUUAGACUU  
 UUUAGCUGAUCGGUGAAUCUG

## pRI-GFP/Neo Restriction Sites

Enzyme	No	Location			
AatII	6	321	374	457	643
		3026	5419		
Acc65I	1	1985			
AclI	3	1567	4723	5096	
AgeI	1	796			
AhaIII	3	4363	4382	5074	
Alw44I	4	177	2021	3918	5164
AlwNI	1	4020			
ApaBI	1	3143			
ApaI	2	1661	3055		
ApaLI	4	177	2021	3918	5164
Asp718I	1	1985			
AsuII	1	3013			
AvrII	1	1695			
Ball	1	2351			
BamHI	1	191			
BbeI	2	2272	3132		
BbvII	2	1784	1670		
BglI	5	286	408	479	1846
		4617			
BglII	1	3238			
Bsc91I	2	1784	1670		
BsiI	5	989	2861	3777	5161
		5468			
BsmI	2	1729	1690		
Bsp140	1	1518			
BspHI	3	4324	5332	5437	
BspMI	3	1883	2537	2156	
BssHII	1	3081			
BstD102	5	3537	5338	2882	3036
		3296			
Csp45I	1	3013			
CspI	1	2785			
DraI	3	4363	4382	5074	
DraIII	1	1907			
DrdI	3	97	2296	3712	
EagI	2	1530	2175		
Eam110	1	4497			
Eco31I	2	3216	4558		
Eco47III	1	792			
Eco52I	2	1530	2175		
Eco56I	1	2769			
Eco57I	8	962	1205	1989	2415

Enzyme	No	Location			
		2847	4152	1006	5164
Eco72I	1	1860			
EcoRI	1	3009			
EcoRV	1	2130			
EheI	2	2270	3130		
HindIII	2	1768	3244		
KpnI	1	1989			
MscI	1	2351			
MstI	2	2371	4719		
NaeI	1	2771			
NarI	2	2269	3129		
NcoI	3	556	807	2701	
NdeI	1	430			
NheI	2	787	2120		
NotI	1	1530			
PfiMI	1	1997			
PinAI	1	796			
PmaCI	1	1860			
PvuI	1	4867			
PvuII	2	2375	3428		
Sall	1	2936			
SapI	3	3488	2613	2823	
Scal	1	4977			
SciI	1	3232			
SnaBI	1	536			
SphI	1	2674			
SspI	2	3140	5301		
Tth111I	1	2387			
VspI	4	203	3375	3434	4669
XhoI	1	3230			
XmaIII	2	1530	2175		
XmnI	2	1756	5096		
XorII	1	4867			
Non Cut Enzymes					
AccIII	AflIII	AscI	BclI	Bpu110	BspM
BstEII	BstXI	Bsu36I	Clal	CvnI	Ecl13
EcoICRI	EcoNI	EspI	FseI	HpaI	I-Ppo
MfeI	Mlu113I	MluI	MstII	NruI	Nsil
Pacl	PmeI	PstI	RleAI	SacI	SacII
SauI	SfiI	SgrAI	Smal	SpeI	SpII
Spol	SrfI	SstI	SstII	StuI	SunI
Swal	XbaI	XcmI	XmaI		