

### **Product datasheet for PS100115**

#### OriGene Technologies, Inc.

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Kozak

## pLenti-E/hSyn-C-mGFP-P2A-Puro Lentiviral Gene Expression Vector

### **Product data:**

**Product Type:** Lentiviral Gene Expression Vectors

C-Tag: mGFP

E. coli Selection: Chloramphenicol (34 ug/mL)

**Mammalian Cell** 

Selection:

Puromycin

**Features:** This Lenti vector is a third generation lentiviral vector.

- The ORF cloned in this vector can be expressed as a tagged fusion protein with C-terminal mGFP tag.
- The expression of the cloned ORF is driven by CMV enhancer and human synapsin I promoter, a neuron specific promoter.
- P2A-Puro is within the Lentiviral packaging cassette and would allow puromycin selection in both the transfected and the transduced cells.
- A brief lentiviral packaging protocol is provided.
- E. Coli. selection: Chloramphenicol (34ug/ml)
- All OriGene's TrueORF clone can be shuttled into this vector via <u>PrecisionShuttling</u>, a simple cut-and-ligation process.

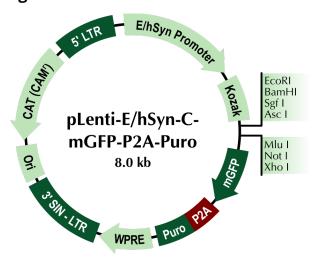
Schematic of the											
multiple cloning sites:											

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EcoR I					BamH I						RBS					Sgf I			
GCG	GCC	GG <i>GA</i>	ATT	'CG	rcg/	ACTG	GAT	rcc(	GGTA	ACCG	AGG	AGA	TCT	GCCG	CCG	CGAT	CGC	2	
A	Asc I					Mlu I				u I	Not I			Xho I					
$\overline{GGC}$	GCG	CCA(	SATO	TCA	AGC	TTA	ACT/	AGTT	AGC	GGA	CCG	ACG	CGT	AC <i>G</i>	CGG	CCG	<i>C</i> TC	GAG	
												T	R	Т	R	Р	L	Ε	
		mG	FP ta	g															
ATG	AGC	GGG	GGC							GGA	CTC	AGA	A GT	TGG	GTA				
Μ	S	G	G	-	-	-	-	-	-	G	L	R	V						





# **Product images:**



													Kozak Consensus					
	EcoR I BamH I R						RB	S			Sgf I							
GCGGCCG	GG <i>GAAT</i>	<i>TC</i> G1	rcga(	CTG	GA	rcc	GGT	ACCG	$\overline{AGG}$	AGA	TCTG	GCCG	CC <i>GC</i>	GAT	CGC	;		
Asc I								Mlu I					Not I		_Xho I			
GGCGCG	<i>CC</i> AGAT	CTCA	AGCT	TΑ	ACT	4GT	ΓAGO	CGGA	CCG.	ACG	CGT	ACG	CGG	CCG	<u>с</u> тс (	GAG		
										Τ	R	Т	R	Р	L	Ε		
ATG AGC	mGFP GGG GG							GGA	ч стс	AGA	GTT	TGG	GTA					
M S	G G	-	-	-	-	-	-	G	L	R	٧							