

## **Product datasheet for PS100028**

OriGene Technologies, Inc.

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### **pEX-N-His-GST Bacterial Expression Vector**

### **Product data:**

**Product Type:** Bacterial Expression Vectors

N-Tag: His-GST

E. coli Selection: Ampicillin (100 ug/mL)

Features:

• Upon IPTG induction, ORFs cloned in this vector can be expressed in E.coli (BL21/DE3) as a tagged protein with an N-terminal His-GST tag.

• Detection and purification of the transgene are best done using an<u>anti-His antibody</u> or a glutathione affinity column.

- If the N-terminal tagging interferes with the protein's function, you can choose the C-terminal His-tagging vector, PS100032
- PS100028\_F Primer (GE100105) can be used to sequence the target sequence after cloning.
- PS100028\_R Primer (GE100133) can be used to sequence the target sequence after cloning.

# Schematic of the multiple cloning sites:

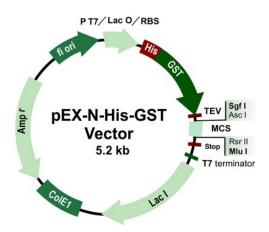
#### pEX-N-His-GST

7 I	PFO	mot	er			Lac	Ope	erat	tor						RBS					1	lis	Tag	ſ			
CGI	ACTO	ACTA	TAG	GGGAA	TTGT	GAGO	GGAT	TAACA	AATT	cccc	PTTT(	GTTT.	AACT	TTAA	GAAGO	AGAG	GCCA	ACC 7	ATG	cat	cac	cat	cac	cat	cac	gca
																			М	н	H	H	H	H	H	A
				GST	Tag													TEV	Cle	avag	e Sit	е		Sgf I	1	
G 1	TCC	CCT							TCG	GAT	ATC	ATC	CCA	ACG	ACC	GAA	AAC	CTG	TAT	TTT	CAG	GGC	GCG	ATC	GCC	GG
1	s	P							s	D	I	I	P	T	T	E	N	L	Y	F	Q	G	A	I	A	
		Hino	1111			R	sr II	м	lu I		,	lot I	XI	1 o	Pme	1	Fse	1								
GA:	TCTC	AAGG	TTA	ACTAC	CTAC	CGGA	LCCG	ACG	CGT	TAA	ACG	CGGC	CGCT	CGAG	GTTT/	LAAC	GCCC	GCC								
		s	S P	G TCC CCT	G TCC CCT	S P	S P	G TCC CCT S P	G TCC CCT S P	G TCC CCT TCG   S   P S   S   P S	G TCC CCT TCG GAT S P S D  Hind III Rsr II Miu I GATCTCAAGCTTAACTAGCTGGGGGGCCG ACG CGT TAA	G TCC CCT TCG GAT ATC S P S D I  Hind III RSr II MIU I  GATCTCAAGCTTAACTAGCTAGCGGACCG ACG CGT TAA ACG	G TCC CCT TCG GAT ATC ATC S P S D I I  Hind III Rsr II MIU Not I  GATCTCAAGCTTAACTAGCTAGCTGGACCG ACG CGT TAA ACGCGGC	G TCC CCT TCG GAT ATC ATC CCA S P S D I I P  Hind III Rsr II Miu I Not I Xh GATCTCAAGCTTAACTAGCTGGGGCCG ACG CGT TAA ACGCGGCCGGTT	G TCC CCT TCG GAT ATC ATC CCA ACG S P S D I I P T  Hind III RSr II MIU I Not I Xho I  GATCTCAAGCTTAACTAGCTAGCGGACCG ACG CGT TAA ACGCGGCCGCTCGAGG	G TCC CCT TCG GAT ATC ATC CCA ACG ACC S P S D I I P T T  Hind III	G TCC CCT TCG GAT ATC ATC CCA ACG ACC GAA S P S D I I P T T E  Hind III RSr II MIU I Not I Xho I Pme I GATCTCAAGCTTAACTAGCTAGCTGGGGCCG ACG CGT TAA ACGCGGCCGCTCGAGGTTTAAACC	G TCC CCT TCG GAT ATC ATC CCA ACG ACC GAA AAC S P S D I I P T T E N  Hind III Rsr II Miu Not   Xho   Pme   Fse  GATCTCAAGCTTAACTAGCTAGCGGACCG ACG CGT TAA ACGCGGCCGCTCGAGGTTTAAACGGCCC	GST Tag  G TCC CCT TCG GAT ATC ATC CCA ACG ACC GAA AAC CTG S P S D I I P T T E N L  Hind III RsrII MIUI Not Xho Pme I Fse I  GATCTCAAGGTTAACTAGCTGGGACCG ACG CCT TAA ACGCGGCCGCTCGAGGTTTAAACGGCCGGCC	GST Tag  GST Tag  GST Tag  GTCC CCT TCG GAT ATC ATC CCA ACG ACC GAA AAC CTG TAT S P S D I I P T T E N L Y  Hind III  RSr II MIU   Not   Xho   Pme   Fse    GATCTCAAGGTTAACTAGCTGGGGCCG ACG CGT TAA ACGCGGCCGCTCGAGGTTTAAACGGCCGCC	GST Tag  GST Tag  GTCC CCT TCG GAT ATC ATC CCA ACG ACC GAA AAC CTG TAT TTT S P S D I I P T T E N L Y F  Hind III RSF II MIU NOt Xho I Pme I Fse I  GATCTCAAGCTTAACTAGCTAGCGGACCG ACG CCT TAA ACGCGGCCGTCGAGGTTTAAACGGCCGGCC	GST Tag  GST Tag  GST Tag  GTCC CCT	GST Tag  GST Tag  GST Tag  GTCC CCT	GST Tag  GST Tag  GTCC CCT TCG GAT ATC ATC CCA ACG ACC GAA AAC CTG TAT TTT CAG GGC GCG S P S D I I P T T E N L Y F Q G A  Hind III RSr II MIUI Not I Xho I Pme I Fse I  GATCTCAAGCTTAACTAGCTAGCGGACCG ACG CGT TAA ACGCGGCCGTCTGAGGTTTAAACGGCCGGCC	GST Tag  TEV Cleavage Site  Sgt  G TCC CCT TCG GAT ATC ATC CCA ACG ACC GAA AAC CTG TAT TTT CAG GGC GCG ATC  S P S D I I P T T E N L Y F Q G A I  Hind III RSrII MIUI Noti Xhoi Pmei Fsei  GATCTCAAGGTTAACTAGCTAGCTGGGACCG ACG CGT TAA ACGCGGCCGCTCGAGGTTTAAACGGCCGGCC	GST Tag  GST Tag  GST Tag  GTCC CCT TCG GAT ATC ATC CCA ACG ACC GAA AAC CTG TAT TTT CAG GGC GCG ACC S P S D I I P T T E N L Y F Q G A I A  Hind III Rsr II MIU Not! Xho! Pme! Fse!  GATCTCAAGGTTAACTAGCTAGCTGGGCCG ACG CGT TAA ACGCGGCCCGCTCGAGGTTTAAACGGCCGCC





# **Product images:**



### pEX-N-His-GST

	т7	Pro	mot	er	_	- 3	Lac	Op	era	tor	<u> </u>					RBS		_			1	His	Tag	r			
TTAA	TAC	GACT	CACT	ATAG	GGGA	ATTGT	'GAG	CGGA1	TAAC	AATT	cccc	TTTT	GTTT	AACT	TTAA	GAAG	GAGA	GGCC	ACC /	ATG	cat	cac	cat	cac	cat	cac	gca
																				М	H	H	H	H	H	H	A
					GST	Tag													TEV	Cle	avag	e Sit	е		Sgf	1	
ggc	ATG	TCC	CCT							TCG	GAT	ATC	ATC	CCA	ACG	ACC	GAA	AAC	CTG	TAT	TTT	CAG	GGC	GCG	ATC	GCC	GGG
G	М	S	P							S	D	I	I	P	T	T	E	N	L	Y	F	Q	G	A	I	A	
Asc	1		Hine	1111			R	sr II	м	lu I		1	Vot I	Xh	01	Pme	e /	Fse	9 /								
GCGC	CAG	ATCT	CAAG	TTA	ACTA	CTA	cgg	ACCG	ACG T	CGT	TAA Stop	ACG	CGGC	CGCT	CGAG	GTTT.	AAAC	GGCC	GCC								