pFN2A (GST) Flexi® Vector:

 Part No.
 Size (units)

 C846A
 20µq

Description: The pFN2A (GST) Flexi[®] Vector^(a,b,c) is designed for use with the Flexi[®] System, Entry/Transfer (Cat.# C8640), and the Flexi[®] System, Transfer (Cat.# C8820). The vector contains a T7 promoter for bacterial or in vitro protein expression of a protein-coding region. The vector appends an N-terminal glutathione-S-transferase (GST) coding region that can be used to purify the expressed protein. The GST tag contains a TEV protease site for removal of the tag after purification. The vector also contains the lethal barnase gene for positive selection of the insert, an ampicillin-resistance gene for selection of the plasmid and unique Sgfl and Pmel sites that allow easy insertion or transfer of the sequence of interest. Inserts containing a protein-cod-ing region can easily be transferred from the pFN2A (GST) Flexi[®] Vector to other Flexi[®] Vectors with different expression options (Table 1). For more information, see the *Flexi[®] Vector Systems Technical Manual* #TM254.

Table 1. Vectors Available for Use With the Flexi® Vector Systems.

Cat.#	Flexi® Vector	Utility	Expression	Drug Selection
C8441	pF1A T7 Flexi [®] Vector	Protein expression	E. coli and in vitro (T7 promoter)	Ampicillin
C8451	pF1K T7 Flexi [®] Vector			Kanamycin
C8461	pFN2A (GST) Flexi® Vector	Protein expression	E. coli and in vitro (T7 promoter)	Ampicillin
C8471	pFN2K (GST) Flexi® Vector	and purification		Kanamycin
L5671	pF3A WG (BYDV) Flexi® Vector	Protein expression	Wheat Germ in vitro (T7, SP6)	Ampicillin
L5681	pF3K WG (BYDV) Flexi® Vector	Protein expression	Wheat Germ in vitro (T7, SP6)	Kanamycin
C8481	pF4A CMV Flexi [®] Vector	Protein expression	Mammalian (CMV promoter)	Ampicillin
C8491	pF4K CMV Flexi [®] Vector		and in vitro (T7 promoter)	Kanamycin

Usage Information

Concentration: 100ng/µl.

GenBank® Accession Number: AY753578.

Storage Buffer: The pFN2A (GST) Flexi® Vector is supplied in 10mM Tris-HCI (pH 8.0), 1mM EDTA.

Storage Conditions: Store the vector at -20°C. Avoid multiple freeze-thaw cycles and exposure to frequent temperature changes. These fluctuations can greatly alter product stability.

Usage Notes: Concentration gradients may form in frozen products and should be dispersed upon thawing. Mix well prior to use.

Quality Control Assays

Nuclease Assay: Following incubation of 1µg of pFN2A (GST) Flexi[®] Vector in Restriction Enzyme Buffer B at 37°C for 16 hours, no evidence of nuclease activity is detected by agarose gel electrophoresis.

Physical Purity: A₂₆₀/A₂₈₀ > 1.80.

Restriction Digestion: The presence of unique restriction sites for Pmel and Sgfl is confirmed by showing that the vector yields the expected fragment sizes after digesting 1µg of vector for 2 hours with 10 units of Pmel, Sgfl and Bgl II.

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Stevens

Signed by:

J. Stevens, Quality Assurance



Usage Information

pFN2A (GST) Flexi® Vector Features and Circle Map

sed on nucleotide sequence.
21-40
70-723
742-762
760-767
791-1126
1128-1135
1255-1302
1636-2496
2651-2687
3358-3643
3694-4095

Related Products

Product		Size	Cat.#
Flexi® System, Entry/Transfer	5 entry and 20 transfe	r reactions	C8640
Flexi [®] System, Transfer	100 transfe	r reactions	C8820
Carboxy Flexi [®] System, Transfer	50 transfe	r reactions	C9320
10X Flexi® Enzyme Blend (Sgfl & Pmel) 25			R1851
		100µl	R1852
Carboxy Flexi Enzyme Blend (Sgfl & EcolCRI)		50µl	R1901
HaloTag® Flexi® Vectors-CMV Dilutio	n Series Sample Pack	9 × 2µg	G3780
Single Step (KRX) Competent Cells		5 x 200µl	L3001

There are Flexi® Vectors available for many different applications. Visit: www.promega.com/applications/cloning to find out more.



Figure 1. pFN2A (GST) Flexi® Vector circle map and sequence reference points.

(a)Patent Pending.

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