



SureVector *E. coli* Expansion Kit

YOUR VISION. YOUR VECTORS.

Benefits

The power of synthetic biology; validated, verified, and ready to help you achieve your vision.

- **Rapid custom vector generation**
Less than a day from design to vector.
- **Enhanced flexibility**
Assemble new vectors quickly, rather than having to order new ones.
- **Control of experiments**
Get the construct you need when you need it.
- **Reliable and precise assembly**
Extensively validated; the only next generation plasmid assembly technology to guarantee assembly of multiple functional DNA fragments.

Use our web tool to explore the possibilities.

www.agilent.com/genomics/newsurevector

Overview

The Agilent SureVector system enables the rapid and reliable assembly of multiple DNA modules into a recombinant plasmid containing your target gene. The *E. coli* expansion kits (G7515A, G7515B) contain a wide assortment of DNA fragments that can be combined with the SureVector Core Kit (G7514A) or the SureVector *E. coli* Selection Kit (G7518A) to expand the functionality of the SureVector system. The SureVector web interface allows you to configure any of the thousands of buildable vectors that are accessible with the set of DNA fragments available in the *E. coli* expansion kits. Once you have the kit in your lab, a custom plasmid containing your gene-of-interest is just a 20 minute reaction away.

The *E. coli* Expansions

The *E. coli* expansion kits contain all the fragments needed to build a variety of expression vectors using the SureVector system. Inducible promoters, along with a set of N-terminal (G7515A) or C-terminal (G7515B) tags, expands the number of buildable vectors accessible with the SureVector system to over 5,000 unique configurations.

The Agilent SureVector is a next-gen assembly technology that allows you to build DNA constructs in a well-validated and controlled system, removing the guesswork and ensuring that you spend less time doing molecular cloning, and more time on your experiments.

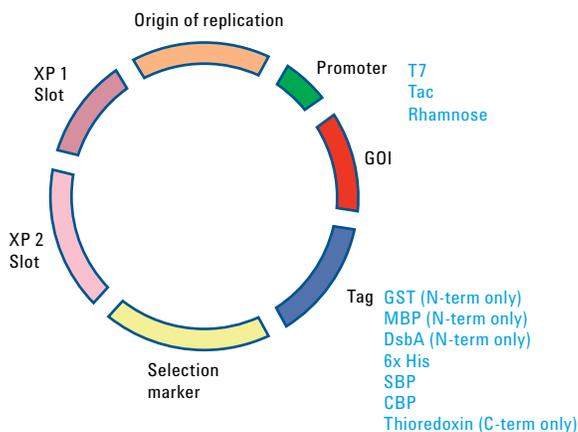


Figure 1: Additional components of the Agilent SureVector *E. coli* kit are shown at left. Combined with the SureVector Core kit, over 5,000 unique vectors can be built.

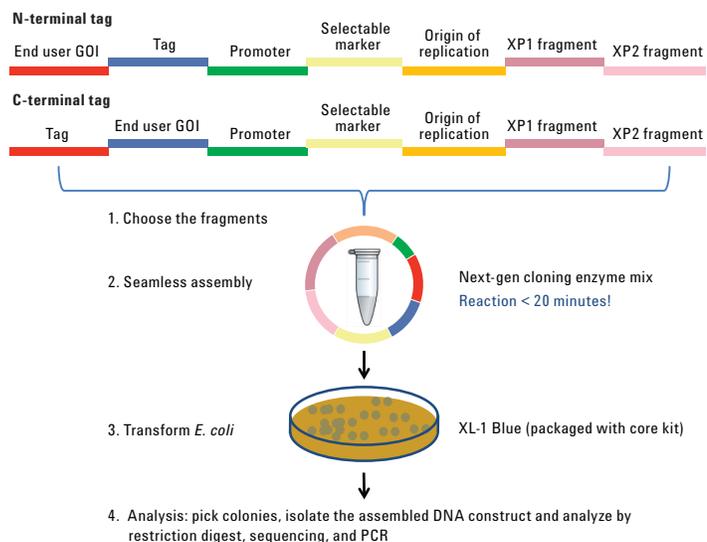


Figure 2: Choose the fragments you want, combine the reagents in a tube, and run the assembly protocol. Additional steps both up and downstream in your workflow remain unchanged compared to existing cloning technologies.



Ordering Information

The SureVector core kit provides functionality in *E. coli*, yeast, and mammalian cells and includes all of the buffers, enzymes, and nucleotides required to generate SureVector plasmids in less than 20 minutes of hands-on time.

The *E. coli* selection kit provides an cost-effective entry into the SureVector system while allowing you to experience the ease and flexibility of SureVector.

Catalog number	Product	Size	Description
G7514A	SureVector Core Kit	15 Reactions	Elements for basic functional cloning in <i>E. coli</i> , yeast, and mammalian cells
G7518A	SureVector <i>E. coli</i> Selection Kit	5 Reactions	Contains three different bacterial selection markers
G7515A	SureVector <i>E. coli</i> N-terminal Expansion Kit	15 Reactions	Promoters and tags for <i>E. coli</i> expression
G7515B	SureVector <i>E. coli</i> C-terminal Expansion Kit	15 Reactions	Promoters and tags for <i>E. coli</i> expression

System Components

SureVector System Fragments			
	<i>E. coli</i>	Mammalian	Yeast
Promoters	T7 (G7515A-B, G7518B-C)	CMV (G7516A-B)	GAL1 (G7517A-B)
	Tac (G7515A-B, G7518B-C)	EF-1a (G7516A-B)	ADH1 (G7517A-B)
	Rhamnose (G7515A-B, G7518B-C)		
Tags	GST (n-term only) (G7515A, G7518D)	6xHis (G7516A-B)	6xHis (G7517A-B)
	MBP (n-term only)(G7515A, G7518D)	c-Myc (G7516A-B)	c-Myc (G7517A-B)
	DsbA (n-term only)(G7515A, G7518D)	3xFLAG (G7516A-B)	3xFLAG (G7517A-B)
	6xHis (G7515A-B, G7518D-E)	hrGFPII (G7516A-B)	hrGFPII (G7517A-B)
	SBP (G7515A-B, G7518D-E)	3xHA (G7516A-B)	3xHA (G7517A-B)
	CBP (G7515A-B, G7518D-E)	SBP (G7516A-B)	SBP (G7517A-B)
	Thioredoxin (c-term only) (G7515B, G7518E)		
	c-Myc (c-term only)(G7515B, G7518E)		
	HA (c-term only)(G7515B, G7518E)		
Bacterial selection	AmpR (G7514A, G7518A-E)	AmpR (G7514A, G7518A-E)	AmpR (G7514A, G7518A-E)
	CamR (G7514A, G7518A)	CamR (G7514A, G7518A)	CamR (G7514A, G7518A)
	KanR (G7514A, G7518A)	KanR (G7514A, G7518A)	KanR (G7514A, G7518A)
Bacterial origins of replication	pUC (G7514A, G7518A-G)	pUC (G7514A, G7518A-G)	pUC (G7514A, G7518A-G)
	p15A (G7514A)	p15A (G7514A)	p15A (G7514A)
	pBR322 (G7514A)	pBR322 (G7514A)	pBR322 (G7514A)
XP1 Fragments	XP1 (G7514A, G7518A-G)	γARS (G7514A)	XP1 (G7514A, G7518A-G)
XP2 Fragments	LacI (G7514A, G7518A-G)	Blasticidin (G7516A)	URA3 (G7517A)
	XP2 (G7514A)	Gentamycin (G7516A)	HIS3 (G7517A)
		Puromycin (G7516A)	Hygromycin (G7517A)
		NeoR (G7514A)	LEU2(G7517A)
Promoter-tag fusions	His-T7 (G7514A)	His-CMV (G7514A)	His-GAL1 (G7514A)



FOR MORE INFORMATION

Visit www.agilent.com/genomics/newsurevector or call your Agilent service representative for a demo.

Find an Agilent customer center in your country
www.genomics.agilent.com/contactUs.jsp

U.S. and Canada:
 1-800-227-9770

cag_sales-na@agilent.com

