



# SureVector Yeast and Mammalian 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](http://www.agilent.com/genomics/newsurevector)

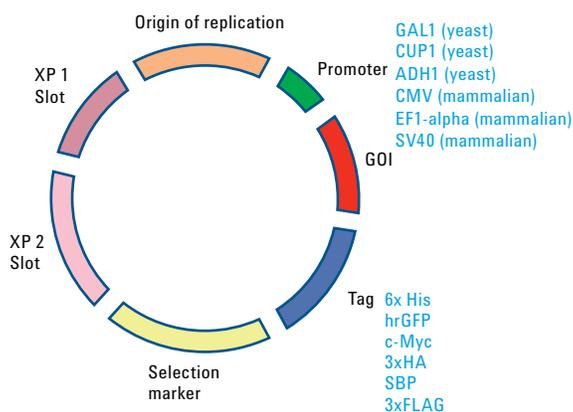
## Overview

The Agilent SureVector system enables the rapid and reliable assembly of multiple DNA modules into a recombinant plasmid containing your target gene. The Mammalian and Yeast expansion kits (G7516A,B and G7517A,B) contain a wide assortment of DNA fragments that can be combined with the SureVector Core Kit (G7514A) or any of the SureVector entry kits (G7518A-E) 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, over 1 million available. Once you have the kit in your lab, a custom plasmid containing the complete SureVector system is only a 20-minute reaction away.

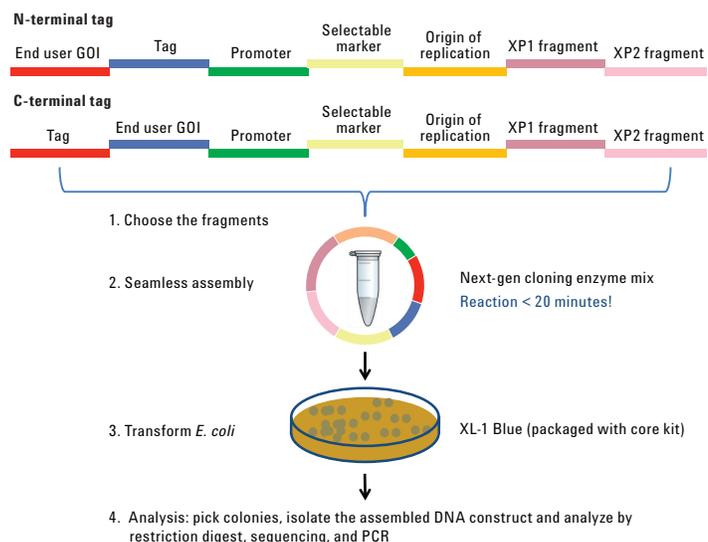
## The Yeast and Mammalian Expansions

The yeast and mammalian expansion kits contain all the fragments needed to build a variety of expression vectors using the SureVector system. Each kit contains three promoters for each organism, a set of 6 tags for use on the N- or C-terminus, and three additional selection markers for each organism. Combined with the SureVector core kit (G7514A) and the *E. coli* expansions (G7515A,B), you have instant access to over 1 million distinct vector combinations.

The Agilent SureVector is a next-gen assembly technology that allows the user 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 Yeast and Mammalian expansion 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.



# SureVector Yeast and Mammalian Expansion Kit

## 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 yeast and mammalian expansion kits expand the number of vectors you can make with SureVector, providing a wide selection of promoters as well as N- and C-terminal tags.

Catalog number	Product	Size	Description
G7516A	SureVector Mammalian N-terminal Expansion Kit	15 Reactions	Promoters and N-terminal tags for expression in mammalian cells
G7516B	SureVector Mammalian C-terminal Expansion Kit	15 Reactions	Promoters and C-terminal tags for expression in mammalian cells
G7517A	SureVector Yeast N-terminal Expansion Kit	15 Reactions	Promoters and N-terminal tags for expression in yeast cells
G7517B	SureVector Yeast C-terminal Expansion Kit	15 Reactions	Promoters and N-terminal tags for expression in yeast cells

## System Components

SureVector System Fragments			
	<i>E. coli</i>	Mammalian	Yeast
<b>Promoters</b>	T7 (G7515A-B, G7518B-C)	<b>CMV (G7516A-B)</b>	<b>GAL1 (G7517A-B)</b>
	Tac (G7515A-B, G7518B-C)	<b>EF-1a (G7516A-B)</b>	<b>ADH1 (G7517A-B)</b>
	Rhamnose (G7515A-B, G7518B-C)	<b>SV40</b>	<b>CUP1</b>
<b>Tags</b>	GST (n-term only) (G7515A, G7518D)	<b>6xHis (G7516A-B)</b>	<b>6xHis (G7517A-B)</b>
	MBP (n-term only)(G7515A, G7518D)	<b>c-Myc (G7516A-B)</b>	<b>c-Myc (G7517A-B)</b>
	DsbA (n-term only)(G7515A, G7518D)	<b>3xFLAG (G7516A-B)</b>	<b>3xFLAG (G7517A-B)</b>
	6xHis (G7515A-B, G7518D-E)	<b>hrGFPII (G7516A-B)</b>	<b>hrGFPII (G7517A-B)</b>
	SBP (G7515A-B, G7518D-E)	<b>3xHA (G7516A-B)</b>	<b>3xHA (G7517A-B)</b>
	CBP (G7515A-B, G7518D-E)	<b>SBP (G7516A-B)</b>	<b>SBP (G7517A-B)</b>
	Thioredoxin (c-term only) (G7515B, G7518E)		
	c-Myc (c-term only)(G7515B, G7518E)		
<b>Bacterial selection</b>	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)
<b>Bacterial origins of replication</b>	pUC (G7514A, G7518A-G)	pUC (G7514A, G7518A-G)	pUC (G7514A, G7518A-G)
	p15A (G7514A)	p15A (G7514A)	p15A (G7514A)
	pBR322 (G7514A)	pBR322 (G7514A)	pBR322 (G7514A)
<b>XP1 Fragments</b>	XP1 (G7514A, G7518A-G)	γARS (G7514A)	XP1 (G7514A, G7518A-G)
	<b>XP2 Fragments</b>	Lacl (G7514A, G7518A-G)	<b>Blasticidin (G7516A)</b>
XP2 (G7514A)		<b>Gentamycin (G7516A)</b>	<b>HIS3 (G7517A)</b>
		<b>Puromycin (G7516A)</b>	<b>Hygromycin (G7517A)</b>
		NeoR (G7514A)	LEU2(G7517A)
<b>Promoter-tag fusions</b>	His-T7 (G7514A)	His-CMV (G7514A)	His-GAL1 (G7514A)



### FOR MORE INFORMATION

Visit [www.agilent.com/genomics/newsurevector](http://www.agilent.com/genomics/newsurevector) or call your Agilent service representative for a demo.

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