

For plasmid sequence, please visit www.chromotek.com

### Location of features

T7 promoter: 1-19 Lac operon: 18-46 RBS: 64-80

Start codon (ATG): 88-90 Spot-Tag<sup>®</sup>: 91-126 MCS: 127-172

rrnB terminator: 364-510

Ampicillin resistance gene: 958-1818 pRB322 replication origin: 1973-2592

Lac operon: 2898-2925

Product	Code	Size
pSpot4	ev-4	1.25 μg
Vector type	bacterial expression vector	
Tag	Spot-Tag <sup>®</sup> (PDRVRAVSHWSS) N-terminal	
MCS	BamHI, EcoRI, SacI, SalI, HindIII, NotI, Xhol	
Promoter	T7	
Induction	IPTG, lactose	
Host cells	Escherichia coli DE3 strains	
Selection	ampicillin	
Replication	pBR322	
Use	Expression of a protein of interest fused to Spot-Tag <sup>®</sup> (N-terminal) in <i>E. coli</i> .	

## **Vector description**

The plasmid pSpot4 is an expression vector for Spot-Tag® fusion proteins in *E. coli*. After cloning the protein of interest (POI) into the multiple cloning site (MCS) provided by pSpot4, the Spot-Tag® (sequence: PDRVRAVSHWSS) will be fused to the N-terminus of the POI.

## Expression in E. coli

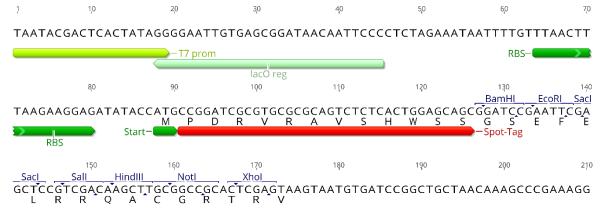
Protein expression can be induced using lactose or IPTG, but requires the use of DE3 prophage-positive *E. coli* expression strains. The resulting Spot-Tag<sup>®</sup> fusion protein can be purified using the ChromoTek Spot-Trap<sup>®</sup>.

## Propagation in E. coli

Suitable host strains for propagation in *E. coli* include DH5alpha, HB101, XL1-Blue, and other general purpose strains. The vector confers resistance to ampicillin (100 µg/ml) to *E. coli* hosts.

Note: The plasmid DNA was isolated from dam<sup>+</sup>-methylated *E.coli*. Therefore some restriction sites are blocked by methylation. If you wish to digest the vector using such sites, you will need to transform the vector into a dam<sup>+</sup> host and make fresh DNA

# Multiple cloning site (MCS)



### Notice to Purchaser:

This plasmid was designed and generated by Dr. Philipp Kaiser from the Naturwissenschaftliches und Medizinisches Institut (NMI) at the University of Tübingen, Germany and is distributed by ChromoTek GmbH. Please acknowledge Dr. Philipp Kaiser (NMI, Tübingen, Germany) and ChromoTek GmbH (Martinsried, Germany) when using or redistributing this vector.

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