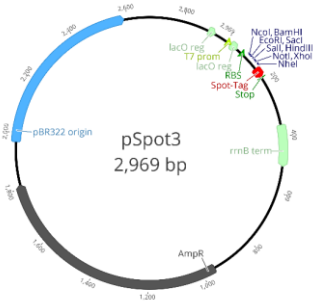
pSpot3 plasmid for expression of C-terminal Spot-Tag® fusion proteins in *E. coli*



For plasmid sequence, please visit www.chromotek.com.

Product	Code	Size
pSpot3	ev-3	1.25 µg

Vector type	bacterial expression vector
Tag	Spot-Tag® (PDRVRAVSHWSS) C-terminal
MCS	NcoI, BamHI, EcoRI, SacI, SalI, HindIII, NotI, XhoI, NheI
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® (C-terminal) in *E. coli*.

Location of features

T7 promoter: 1-19

Lac operon: 19-46

RBS: 64-80

MCS: 86-140

Spot-Tag®: 141-176

Stop codon (TAA): 177-179

rrnB terminator: 361-507

Ampicillin resistance gene: 955-1815

pRB322 replication origin: 1970-2589

Lac operon: 2895-2922

Vector description

The plasmid pSpot3 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 pSpot3, the Spot-Tag® (sequence: PDRVRAVSHWSS) will be fused to the C-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® fusion protein can be purified using the ChromoTek Spot-Trap®.

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$^+$-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$^-$ 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.
The development of this plasmid was supported by a grant "Zentrales Innovationsprogramm Mittelstand" (ZIM) from the Federal Ministry for Economic Affairs and Energy of Germany.