

Data Sheet

Plasmid #31

SKU No.: 02-1031

Description	Plasmid #31 enables the labeling of target proteins with both cleavable N-terminal His8 and cleavable C-terminal CL7 tags.
Expression	Transcription is induced with IPTG and driven by the T7 RNA polymerase. The plasmid is designed for expression in E. Coli.
Affinity Tag	The C-terminal CL7 tag is downstream of three PreScission protease (PSC) and one Sortase A (SRT) cleavage site.
Cleavage Site(s)	Plasmid #31 includes a C-terminal SUMO cleavage site, upstream of the His8 tag; a Tobacco Etch Virus (TEV) cleavage site between the His8 tag and target protein; a SRT site downstream of the target protein; and three PSC cleavage sites between the SRT and CL7 tag.
Other Tags	This plasmid includes N-terminal Trx and His8 tags.
Resistance	Kanamycin
Form	100 ng, dissolved in water.
Concentration	30 ng/μL
Stability	12 months after shipping
Storage	-20° C
Shipping	Room temperature

Scheme

1. HindIII/SpeI Insertion Site – Trx | SUMO | His8 | TEV | Gene of Interest | SRT | PSC | PSC | PSC | CL7
2. KpnI/SpeI Insertion Site – Trx | SUMO | His8 | Gene of Interest | SRT | PSC | PSC | PSC | CL7
3. Bsu36I/SpeI Insertion Site – Trx | SUMO | Gene of Interest | SRT | PSC | PSC | PSC | CL7

The Bsu36I/SpeI insertion scheme maintains the Gene of Interest's wildtype sequence, without adding any extra residues. The N-terminus of the Gene of Interest must include the following to complete the SUMO C-terminal sequence:

P E D L D M E D N D I I E A H R E Q I G G
 CCTGAGGATCTGGACATGGAAGACAATGACATTATCGAAGCTCATCGTGAACAGATTGGTGGT<Gene of Interest>
 Bsu36I

You can download the full protocol from <https://trialtusbioscience.com/products/#protocols>.

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Licensing Information

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