

Data Sheet

Plasmid #34

SKU No.: 02-1034

Description	Plasmid #34 enables target proteins to be labeled with C-terminal His8 and CL7. Protease cleavage removes both 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 Sortase A (SRT) and PreScission protease (PSC) cleavage sites and a His8 tag.
Cleavage Site(s)	N-terminal SUMO and C-terminal SRT and PSC cleavage sites are available in Plasmid #34.
Other Tags	The encoded region begins with a Trx tag and includes a C-terminal His8 tag upstream of CL7.
Resistance	Kanamycin
Form	100 ng, dissolved in H ₂ O.
Concentration	30 ng/μL
Stability	12 months after shipping
Storage	-20° C
Shipping	Room temperature

Scheme

1. HindIII/SpeI Insertion Site – Trx | SUMO | Gene of Interest | SRT | PSC | PSC | PSC | His8 | CL7

This insertion scheme results in 7 extra aa at the N terminus of the target following SUMO protease cleavage.

2. KpnI/SpeI Insertion Site – Trx | SUMO | Gene of Interest | SRT | PSC | PSC | PSC | His8 | CL7

This insertion scheme results in 2 extra aa at the N terminus of the target following SUMO protease cleavage.

3. Bsu36I/SpeI Insertion Site – Trx | SUMO | Gene of Interest | SRT | PSC | PSC | PSC | His8 | CL7

This 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://trialogbioscience.com/products/#protocols>.

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Licensing Information

TriAltus Bioscience holds the exclusive, worldwide license to the CL7 protein purification technology platform. It was licensed from the University of Alabama at Birmingham (UAB) in Birmingham, Alabama, USA. An international patent filing has been made with protection being sought in the United States, Europe, and other major markets. The CL7 purification technology is available for research use. For commercial use or resale, contact us at sales@trialogbioscience.com to discuss commercial licensing.

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