

## Data Sheet

### Plasmid #10

SKU No.: 02-1010

<b>Description</b>	Plasmid #10 allows for the purification of membrane proteins. It includes an N-terminal His8 tag, a C-terminal CL7 tag, and an engineered signal peptide from the Bacillus halodurans YidC gene. Membrane proteins are inserted at the BamHI/SpeI restriction sites, where there is an existing 1711 base pair restriction fragment.
<b>Expression</b>	Transcription is induced with IPTG and driven by the T7 RNA polymerase. The plasmid is designed for expression in E. Coli.
<b>Affinity Tag</b>	Plasmid #10 contains a C-terminal CL7 tag that is downstream of both a PreScission protease (PSC) and Sortase A (SRT) cleavage site. TriAltus scientists find that Sortase A is less efficient than PSC at cleaving membrane proteins.
<b>Cleavage Site(s)</b>	Plasmid #10 contains a C-terminal CL7 tag that is downstream of both a PreScission protease (PSC) and Sortase A (SRT) cleavage site. TriAltus scientists find that Sortase A is less efficient than PSC at cleaving membrane proteins.
<b>Other Tags</b>	An N-terminal His8 tag is located upstream of a SRT cleavage site.
<b>Resistance</b>	Kanamycin
<b>Form</b>	100 ng, dissolved in water.
<b>Concentration</b>	30 ng/μL
<b>Stability</b>	12 months after shipping
<b>Storage</b>	-20° C
<b>Shipping</b>	Room temperature

You can download the full protocol from <https://trialtusbioscience.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@trialtusbioscience.com](mailto:sales@trialtusbioscience.com) to discuss commercial licensing.

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