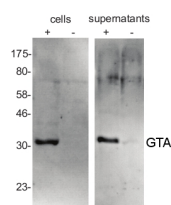


Product no **AS08 365****GTA MCP | Gene Transfer Agent (GTA) major capsid protein (MCP)****Product information**

<b>Immunogen</b>	<u>KLH</u> -conjugated conserved peptide sequence found in the Gene Transfer Agent (GTA) major capsid protein (MCP) encoded in Bacteria within the Rhodobacterales order of the class alpha-Proteobacteria including <i>Rhodobacter sphaeroides</i> UniProt: <u>Q3J3K4</u>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Serum
<b>Format</b>	Lyophilized
<b>Quantity</b>	200 µl
<b>Reconstitution</b>	For reconstitution add 200 µl of sterile distilled water
<b>Storage</b>	Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.
<b>Additional information</b>	This product can be sold containing ProClin if requested

**Application information**

<b>Recommended dilution</b>	1 : 1000 (WB)
<b>Expected   apparent MW</b>	31.4   32 kDa (predicted mature capsid protein of <i>Rhodobacter capsulatus</i> )
<b>Confirmed reactivity</b>	<i>Dinoroseobacter shibae</i> , <i>Rhodobacter capsulatus</i> , <i>Ruegeria pomeroyi</i> DSS-3
<b>Predicted reactivity</b>	Rhodobacterales
	Species of your interest not listed? <a href="#">Contact us</a>
<b>Not reactive in</b>	No confirmed exceptions from predicted reactivity are currently known
<b>Selected references</b>	<a href="#">Shimizu</a> et al. (2022) Persulfide-Responsive Transcription Factor SqrR Regulates Gene Transfer and Biofilm Formation via the Metabolic Modulation of Cyclic di-GMP in <i>Rhodobacter capsulatus</i> , <i>Microorganisms</i> 10, no. 5: 908. <a href="https://doi.org/10.3390/microorganisms10050908">https://doi.org/10.3390/microorganisms10050908</a> <a href="#">Koppenhofer</a> et al. (2019). Integrated Transcriptional Regulatory Network of Quorum Sensing, Replication Control, and SOS Response in <i>Dinoroseobacter shibae</i> . <i>Front. Microbiol.</i> , 12 April 2019   <a href="https://doi.org/10.3389/fmicb.2019.00803">https://doi.org/10.3389/fmicb.2019.00803</a> . <a href="#">Tomasch</a> et al. (2018). Packaging of <i>Dinoroseobacter shibae</i> DNA into Gene Transfer Agent Particles Is Not Random. <i>Genome Biol Evol.</i> 2018 Jan 1;10(1):359-369. doi: 10.1093/gbe/evy005. <a href="#">Mercer</a> and Lang (2014). Identification of a predicted partner-switching system that affects production of the gene transfer agent RcGTA and stationary phase viability in <i>Rhodobacter capsulatus</i> . <i>BMC Microbiol.</i> 2014 Mar 19;14(1):71.

**Application example**

*Roseobacter capsulatus* cells, pelleted by centrifugation and resuspended in an equal volume of TE buffer and supernatant sample\* were separated on **10% SDS-PAGE** and blotted 1h to **nitrocellulose**. The "+" indicated *R. capsulatus* SB1003 (GTA positive) and "-" indicated *R. capsulatus* A1 (GTA capsid protein negative). Blots were blocked in 5% skim milk in TBST followed by incubation with anti-GTA antibodies (AS08 365) at dilution 1 : 1000 at 4°C over night. After washes blots were incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase

conjugated, from Santa Cruz Biotechnology, Santa Cruz, CA) and specific bands were detected with chemiluminescence detection reagent. Exposure time was 30 seconds with CCD camera.

\* - supernatant sample was obtained in a following way: cells were removed by two rounds of centrifugation at 17,000 *g* for 2 min. with sub-sample of the supernatant removed to a new tube. Two volumes of the cells or final culture supernatant were mixed with 1 volume of 3X SDS-PAGE sample buuffer (NEB).