

# Agrisera

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Product no **AS13 2709**

## LYC | Lycopene beta cyclase (chloroplastic)

### Product information

<b>Background</b>	<b>Lycopene cyclase</b> (EC=5.5.1.19) is an enzyme involved in carotenoid biosynthesis, which catalyzes the double cyclization reaction which converts lycopene to beta-carotene and neurosporene to beta-zeaxanthin. Synonyms:
<b>Immunogen</b>	His-tagged recombinant part of <i>Arabidopsis thaliana</i> lycopene beta-cyclase, encompassing about 2/3 of the coding region of, <a href="#">AEE74875.1</a> , TAIR: <a href="#">AT3G10230</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Serum
<b>Format</b>	Lyophilized
<b>Quantity</b>	50 µl
<b>Reconstitution</b>	For reconstitution add 50 µl of sterile water.
<b>Storage</b>	Store lyophilized/reconstituted at -20 °C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
<b>Tested applications</b>	Western blot (WB)
<b>Related products</b>	<a href="#">AS13 2710</a>   Anti-IPP isomerase   isopentenyl pyrophosphate isomerase, rabbit antibodies <a href="#">AS15 3079</a>   Anti-LCY   lycopene beta-cyclase (chloroplastic), rabbit antibodies (to full length LCY) <a href="#">other antibodies to carotenoid biosynthesis pathway</a> <a href="#">Plant and algal protein extraction buffer</a> <a href="#">Secondary antibodies</a>

### Application information

<b>Recommended dilution</b>	1 : 500-1 : 2000 (WB)
<b>Expected   apparent MW</b>	56   50 kDa
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Capsicum annuum</i> , <i>Pisum sativum</i> , <i>Haematococcus pluvialis</i> (green alga), <i>Oryza sativa</i>
<b>Predicted reactivity</b>	Species of your interest not listed? <a href="#">Contact us</a>
<b>Not reactive in</b>	diatoms
<b>Selected references</b>	<a href="#">Tang</a> et al. (2020). OsNSUN2-Mediated 5-Methylcytosine mRNA Modification Enhances Rice Adaptation to High Temperature. <i>Dev Cell.</i> 2020 May 4;53(3):272-286.e7. doi: 10.1016/j.devcel.2020.03.009. <a href="#">Sun</a> et al. (1998). Differential expression of two isopentenyl pyrophosphate isomerases and enhanced carotenoid accumulation in a unicellular chlorophyte. <i>PNAS</i> , Vol. 95, pp. 11482–11488, September 1998.

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