

Resource Summary Report

Generated by [RRID](#) on Sep 1, 2026

SUMO CRYGS 16-177 Q16C

RRID:Addgene_217673

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/217673>

Proper Citation: RRID:Addgene_217673

Insert Name: CRYGS

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Vector Backbone Description: Backbone Size:5368; Vector Backbone:pET28B+; Vector Types:Bacterial Expression; Bacterial Resistance:Kanamycin

Comments: This a N-terminally truncated gamma S crystallin missing its N-terminal 15 amino acid residues and containing a Q16C mutation at its N-terminus to act as a site to perform native chemical ligation. It also has a N-terminal SUMO tag with a 6X His tag with the amino acid sequence:
GHHHHHHGSLQDSEVNQEAKPEVKPEVKPETHINLKVSDGSSEIFFKIKKTTPLRRLMEAFKRQGG
IGG It will express in a soluble state with the SUMO tag, but will precipitate once the SUMO tag is removed during ulp-1 cleavage. It has a propensity to form non-disulfide linked multimers once the SUMO tag is removed, so the ligation reaction must be performed immediately after ULP-1 treatment.

Plasmid Name: SUMO CRYGS 16-177 Q16C

Relevant Mutation: Glutamine 16 changed to Cysteine, and amino acids 1-15 removed from gamma S crystallin

Record Creation Time: 20240801T080652+0000

Record Last Update: 20260829T082049+0000

Ratings and Alerts

No rating or validation information has been found for SUMO CRYGS 16-177 Q16C.

No alerts have been found for SUMO CRYGS 16-177 Q16C.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.