

Resource Summary Report

Generated by [RRID](#) on Aug 22, 2026

pQE-80L MBP-SspB Nano

RRID:Addgene_60409

Type: Plasmid

Proper Citation

RRID:Addgene_60409

Plasmid Information

URL: <http://www.addgene.org/60409>

Proper Citation: RRID:Addgene_60409

Insert Name: SspB nano

Organism: E. Coli

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25535392](#)

Vector Backbone Description: Backbone Marker:Qiagen; Backbone Size:5979; Vector Backbone:pQE-80L; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Comments: The SspB used in this construct contains two amino acid mutations that disrupt the natural dimerization of SspB. These mutations are Y11K and A15E (residue numbering from pdb code 1ou9). Here is the sequence around the mutated residues with the sites of mutation in parentheses: SSPKRP(K)LLR(E)YYDWLVDNS

Plasmid Name: pQE-80L MBP-SspB Nano

Relevant Mutation: Y11K and A15E

Record Creation Time: 20220422T222347+0000

Record Last Update: 20260815T081732+0000

Ratings and Alerts

No rating or validation information has been found for pQE-80L MBP-SspB Nano.

No alerts have been found for pQE-80L MBP-SspB Nano.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Nakajima D, et al. (2024) A unified purification method for actin-binding proteins using a TEV-cleavable His-Strep-tag. *MethodsX*, 13, 102884.

Ji Y, et al. (2023) Self-Regulated and Bidirectional Communication in Synthetic Cell Communities. *ACS nano*, 17(10), 8992.

Chakraborty T, et al. (2021) Cell to Cell Signaling through Light in Artificial Cell Communities: Glowing Predator Lures Prey. *ACS nano*, 15(6), 9434.

Ma G, et al. (2020) Optogenetic engineering to probe the molecular choreography of STIM1-mediated cell signaling. *Nature communications*, 11(1), 1039.

Mueller M, et al. (2020) The Importance of Cell-Cell Interaction Dynamics in Bottom-Up Tissue Engineering: Concepts of Colloidal Self-Assembly in the Fabrication of Multicellular Architectures. *Nano letters*, 20(4), 2257.

Lindner F, et al. (2020) LITESEC-T3SS - Light-controlled protein delivery into eukaryotic cells with high spatial and temporal resolution. *Nature communications*, 11(1), 2381.

Bartelt SM, et al. (2018) Dynamic blue light-switchable protein patterns on giant unilamellar vesicles. *Chemical communications (Cambridge, England)*, 54(8), 948.

Chervyachkova E, et al. (2018) Reversible Social Self-Sorting of Colloidal Cell-Mimics with Blue Light Switchable Proteins. *ACS synthetic biology*, 7(7), 1817.

Bartelt SM, et al. (2018) Light-Guided Motility of a Minimal Synthetic Cell. *Nano letters*, 18(11), 7268.