### Experimental design

1. **Sample size**
   - Describe how sample size was determined.
   
   This paper focuses on bacterial physiology so its sample size was determined using classical statistical methods for means and t-test.

2. **Data exclusions**
   - Describe any data exclusions.
   
   No data were excluded.

3. **Replication**
   - Describe the measures taken to verify the reproducibility of the experimental findings.
   
   All experiments have been performed in triplicates at least twice and we confirm the reproducibility.

4. **Randomization**
   - Describe how samples/organisms/participants were allocated into experimental groups.
   
   This is not relevant because all experiments were performed using bacteria.

5. **Blinding**
   - Describe whether the investigators were blinded to group allocation during data collection and/or analysis.
   
   Blinding was not relevant in this study because only biochemical assays were performed.

**Note:** all in vivo studies must report how sample size was determined and whether blinding and randomization were used.

6. **Statistical parameters**
   - For all figures and tables that use statistical methods, confirm that the following items are present in relevant figure legends (or in the Methods section if additional space is needed).

<table>
<thead>
<tr>
<th>n/a</th>
<th>Confirmed</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑️</td>
<td>☑️</td>
</tr>
<tr>
<td>☑️</td>
<td>☑️</td>
</tr>
<tr>
<td>☑️</td>
<td>☑️</td>
</tr>
<tr>
<td>☑️</td>
<td>☑️</td>
</tr>
<tr>
<td>☑️</td>
<td>☑️</td>
</tr>
<tr>
<td>☑️</td>
<td>☑️</td>
</tr>
<tr>
<td>☑️</td>
<td>☑️</td>
</tr>
<tr>
<td>☑️</td>
<td>☑️</td>
</tr>
<tr>
<td>☑️</td>
<td>☑️</td>
</tr>
<tr>
<td>☑️</td>
<td>☑️</td>
</tr>
</tbody>
</table>

See the web collection on statistics for biologists for further resources and guidance.
Software

Describe the software used to analyze the data in this study.

No custom software was used.

Materials and reagents

8. Materials availability

Indicate whether there are restrictions on availability of unique materials or if these materials are only available for distribution by a third party.

No unique methods were used.

9. Antibodies

Describe the antibodies used and how they were validated for use in the system under study (i.e. assay and species).

Only commercial epitope antibodies were used in the study.

10. Eukaryotic cell lines

a. State the source of each eukaryotic cell line used.

No eukaryotic cell lines were used.

b. Describe the method of cell line authentication used.

Describe the authentication procedures for each cell line used OR declare that none of the cell lines used have been authenticated OR state that no eukaryotic cell lines were used.

c. Report whether the cell lines were tested for mycoplasma contamination.

Confirm that all cell lines tested negative for mycoplasma contamination OR describe the results of the testing for mycoplasma contamination OR declare that the cell lines were not tested for mycoplasma contamination OR state that no eukaryotic cell lines were used.

d. If any of the cell lines used are listed in the database of commonly misidentified cell lines maintained by ICLAC, provide a scientific rationale for their use.

Provide a rationale for the use of commonly misidentified cell lines OR state that no commonly misidentified cell lines were used.

Animals and human research participants

11. Description of research animals

Provide all relevant details on animals and/or animal-derived materials used in the study.

No animals were used.

12. Description of human research participants

Describe the covariate-relevant population characteristics of the human research participants.

This study did not involve human subjects.