natureresearch

Corresponding author(s): DieterSoll

Initial submission 🗌 Revised version

Final submission

Life Sciences Reporting Summary

Nature Research wishes to improve the reproducibility of the work that we publish. This form is intended for publication with all accepted life science papers and provides structure for consistency and transparency in reporting. Every life science submission will use this form; some list items might not apply to an individual manuscript, but all fields must be completed for clarity.

For further information on the points included in this form, see Reporting Life Sciences Research. For further information on Nature Research policies, including our data availability policy, see Authors & Referees and the Editorial Policy Checklist.

Experimental design

1.	Sample size		
	Describe how sample size was determined.	Following standard biochemical protocols	
2.	Data exclusions		
	Describe any data exclusions.	No data were excluded.	
3.	Replication		
	Describe whether the experimental findings were reliably reproduced.	Biochemical tests were repeated 3-4 times	
4.	Randomization		
	Describe how samples/organisms/participants were allocated into experimental groups.	Not applicable	
5.	Blinding		
	Describe whether the investigators were blinded to group allocation during data collection and/or analysis.	Not applicable	
	Note: all studies involving animals and/or human research participants must disclose 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).		

n/a	Cor	nfirmed
	The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement (animals, litters, cultures, etc.	
	\boxtimes	A description of how samples were collected, noting whether measurements were taken from distinct samples or whether the same sample was measured repeatedly
	A statement indicating how many times each experiment was replicated	
\boxtimes		The statistical test(s) used and whether they are one- or two-sided (note: only common tests should be described solely by name; more complex techniques should be described in the Methods section)
\ge		A description of any assumptions or corrections, such as an adjustment for multiple comparisons
\boxtimes		The test results (e.g. P values) given as exact values whenever possible and with confidence intervals noted
\boxtimes		A clear description of statistics including central tendency (e.g. median, mean) and variation (e.g. standard deviation, interquartile range)
	\boxtimes	Clearly defined error bars
		Contraction of the strength of the first free for the free for the second sec

Software

Policy information about availability of computer code

7. Software

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

Standard crystallographic software indicated in Online Methods

For manuscripts utilizing custom algorithms or software that are central to the paper but not yet described in the published literature, software must be made available to editors and reviewers upon request. We strongly encourage code deposition in a community repository (e.g. GitHub). *Nature Methods* guidance for providing algorithms and software for publication provides further information on this topic.

Not applicable

Not applicable

were used.

eukaryotic cell lines were used.

commonly misidentified cell lines were used.

Materials and reagents

Policy information about availability of materials

8. Materials availability

Indicate whether there are restrictions on availability of unique materials or if these materials are only available for distribution by a for-profit company. Clones and strains will be freely available (with MTA)

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

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

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

9. Antibodies

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

- 10. Eukaryotic cell lines
 - a. State the source of each eukaryotic cell line used.
 - b. Describe the method of cell line authentication used.
 - c. Report whether the cell lines were tested for mycoplasma contamination.
 - 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.

> Animals and human research participants

Policy information about studies involving animals; when reporting animal research, follow the ARRIVE guidelines

11. Description of research animals

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

Not applicable

Policy information about studies involving human research participants

12. Description of human research participants

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

Not applicable