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* You should state whether an appropriate sample size was computed when the study was being designed
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* If no explicit power analysis was used, you should describe how you decided what sample (replicate) size (number) to use

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* You should report how often each experiment was performed
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* High-throughput sequence data should be uploaded before submission, with a private link for reviewers provided (these are available from both GEO and ArrayExpress)

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Sub-diffraction fluorescent beads were imaged on 5 different occasions. The reported values for microscope performance include the full-width half-maximum of the measured bead size and includes 14 beads. No statistical significance is claimed.

Cells expressing each construct were imaged multiple times, on multiple separate occasions, and the phenomena described in the paper reflect at least one observation.

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* Statistical analysis methods should be described and justified
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We used the mean and standard deviations as statistical tests to evaluate the microscope performance. No statistical significance is claimed.

(For large datasets, or papers with a very large number of statistical tests, you may upload a single table file with tests, Ns, etc., with reference to sections in the manuscript.)

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This manuscript does not represent a biological or clinical study, and did not require experimental groups.

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The data underlying each main figure has been compressed and can be downloaded for the review process here: <https://cloud.biohpc.swmed.edu/index.php/s/PrZgwtpkPnrpjL7>

The final manuscript data will be made available on the open access repository Zenodo.