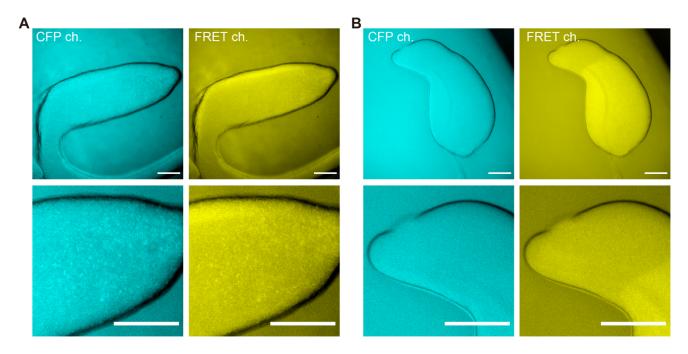


Supplementary Materials

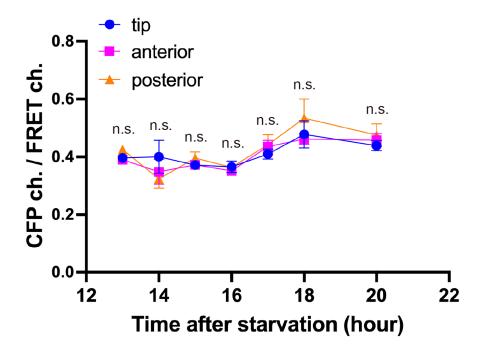
Visualization of c-di-GMP signal in *Dictyostelium* multicellular body

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Supplementary Figure S1. Representative fluorescence images of autofluorescence in *Dictyostelium* multicellular body are shown. **(A)** Fluorescence images of autofluorescence of a multicellular body grown in HL5 medium including glucose. The lower panels show the enlargement of upper images. **(B)** Fluorescence images of autofluorescence of a multicellular body grown in low fluorescence medium. The lower panels show the enlargement of upper images. Scale bars, 100 μm.



Supplementary Figure S2. Timelapse measurement of the autofluorescence in AX2 during development. Ratio values of CFP/FRET channels for each region within the multicellular body at each time point after starvation. Mean \pm standard errors are shown (n = 9). Data were assessed with ANOVA with Tukey's multiple comparisons test; n.s., no significant difference.

Supplementary Table S1

Dictyostelium discoideum strains used in this study.

Strain name	Characteristics	Background	Source or reference
AX2	wild type	AX2	Lab stock
dgcA ⁻	dgcA ⁻ (bsR)	AX2	(Chen and Schaap, 2012)
			NBRP-nenkin (ID: S90402)
mYpet-YcgR-mCypet /AX2	(neoR)	AX2	This study
mYpet-YcgR(R118A)-mCypet /AX2	(neoR)	AX2	This study
mYpet-YcgR-mCypet /dgcA	(neoR)	AX2	This study

Supplementary Table S2

Plasmids used in this study.

Plasmid name	Characteristics	Backbone	Source or reference
pMMB67EH-Spy	mYpet-YcgR-mCypet	рММВ67ЕН	(Christen et al., 2010) Addgene (#90102)
pDM304/mYpet-YcgR-mCypet	mYpet-YcgR-mCypet	pDM304 (neoR)	This study
pDM304/mYpet-YcgR(R118A)- mCypet	mYpet-YcgR(R118A)- mCypet	pDM304 (neoR)	This study