SUPPLEMENTARY MATERIAL

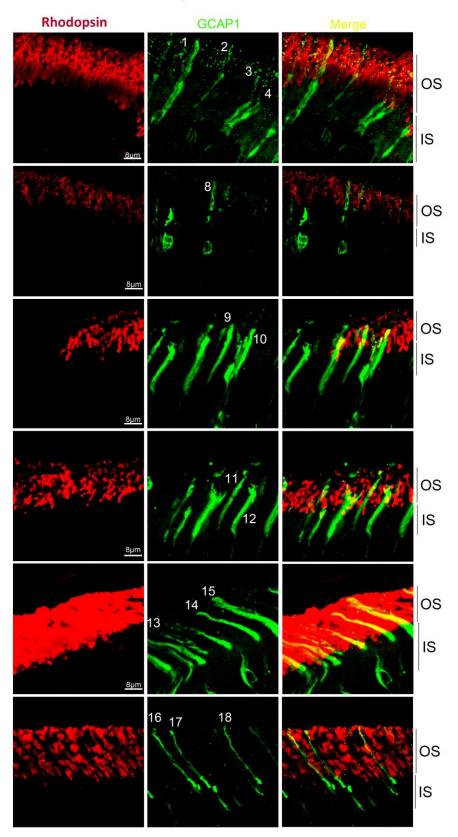
TITLE: Molecular determinants of Guanylate Cyclase Activating Protein subcellular distribution in photoreceptor cells of the retina.

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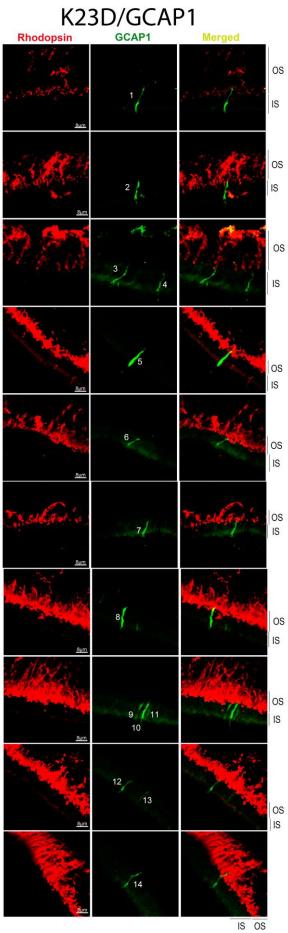
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Supplementary Figure S1. Subcellular distribution of GCAP1 in individual rod photoreceptor cells of GCAP1/2 knockout mice transfected with the wildtype GCAP1 construct. Cells that were taken into account for determination of GCAP1 distribution to rod outer segments are numbered. The cells presented in Fig 1 of the main text of the article are not included here, and hence the discontinued numbering. OS: outer segment; IS: inner segment.

WT/GCAP1

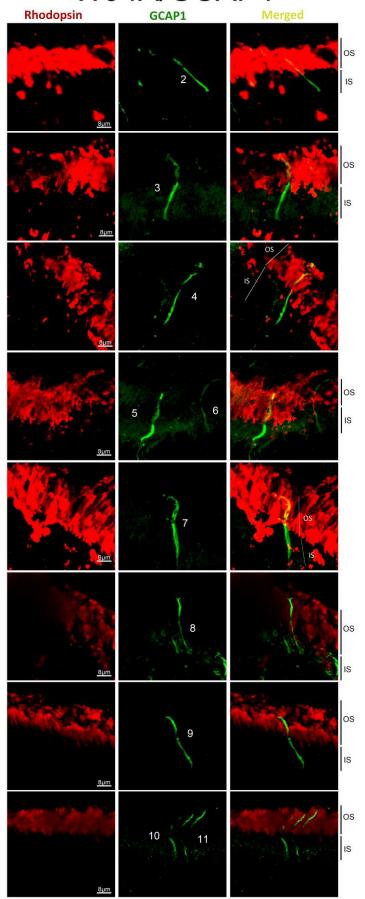


Supplementary Figure S2. Subcellular distribution of K23D/GCAP1 in individual rod photoreceptor cells of GCAP1/2 knockout mice transfected with the K23D/GCAP1 construct. The cells that were taken into account for determination of GCAP1 distribution to rod outer segments are numbered. The cells presented in Fig 1 of the main text of the article are not included here, and hence the discontinued numbering. OS: outer segment; IS: inner segment.



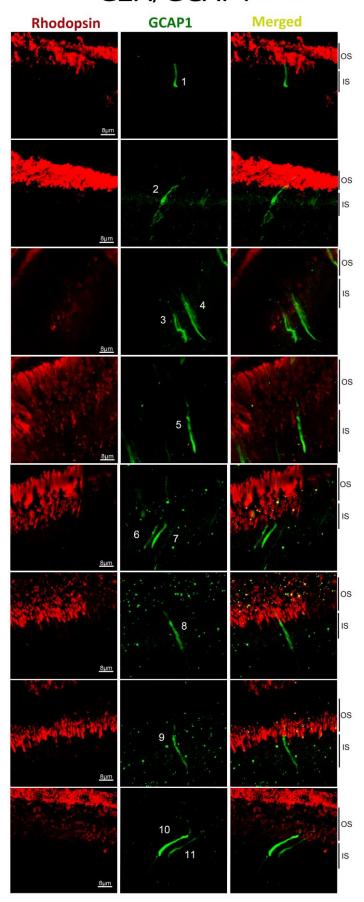
Supplementary Figure S3. Subcellular distribution of W94A/GCAP1 in individual rod photoreceptor cells of GCAP1/2 knockout mice transfected with the W94A/GCAP1 construct. Cells that were taken into account for determination of GCAP1 distribution to rod outer segments are numbered. The cells presented in Fig 1 of the main text of the article are not included here, and hence the discontinued numbering. OS: outer segment; IS: inner segment.

W94A/GCAP1



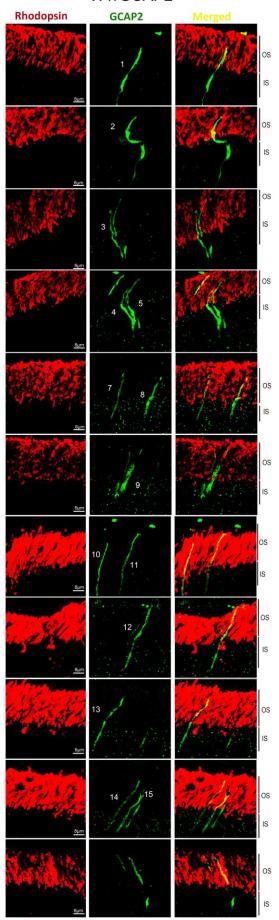
Supplementary Figure S4. Subcellular distribution of G2A/GCAP1 in individual rod photoreceptor cells of GCAP1/2 knockout mice transfected with the G2A/GCAP1 construct. The cells that were taken into account for determination of GCAP1 distribution to rod outer segments are numbered. The cells presented in Fig 1 of the main text of the article are not included here, and hence the discontinued numbering. OS: outer segment; IS: inner segment.

G2A/GCAP1



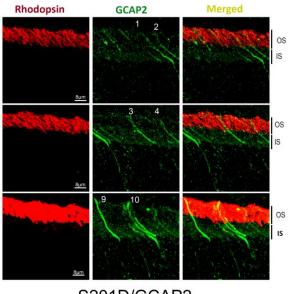
Supplementary Figure S5. Subcellular distribution of GCAP2 in individual rod photoreceptor cells of GCAP1/2 knockout mice transfected with wildtype GCAP2. Cells that were taken into account for determination of GCAP2 distribution to rod outer segments are numbered. The cells that are presented in Fig 2 of the main text of the article are not included here, and hence the discontinued numbering. OS: outer segment; IS: inner segment.

WT/GCAP2

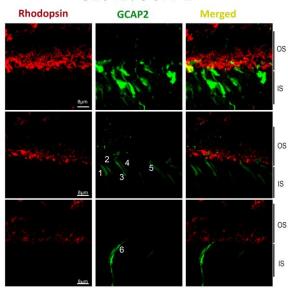


Supplementary Figure S6. Subcellular distribution of GCAP2 in individual rod photoreceptor cells of GCAP1/2 knockout mice transfected with constructs G2A/GCAP2; S201D/GCAP2; or S201G/GCAP2. Cells that were taken into account for determination of GCAP2 distribution to rod outer segments are numbered. The cells that are presented in Fig 2 of the main text of the article are not included here, and hence the discontinued numbering. OS: outer segment; IS: inner segment.

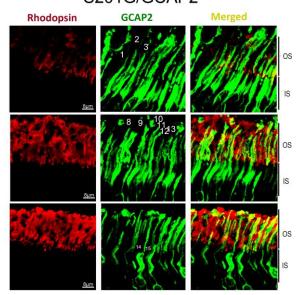
G2A/GCAP2



S201D/GCAP2

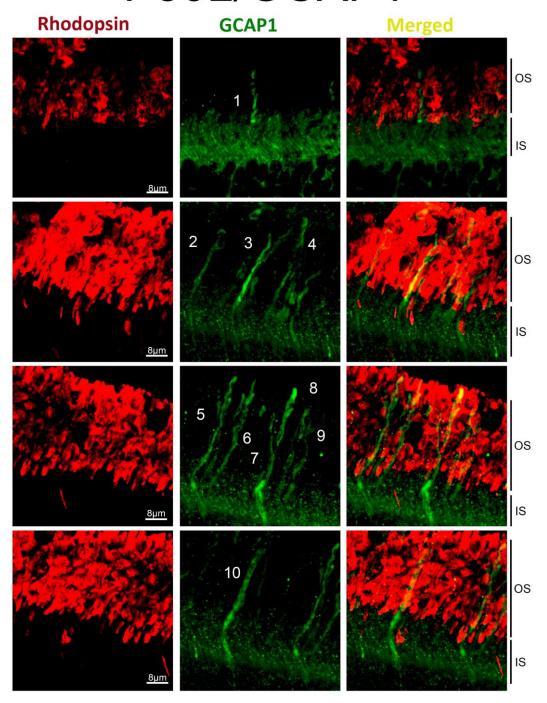


S201G/GCAP2



Supplementary Figure S7. Subcellular distribution of GCAP1 in individual rod photoreceptor cells of GCAP1/2 knockout mice transfected with P50L/GCAP1 construct. The cells that were taken into account for determination of GCAP1 distribution to rod outer segments are numbered. The cells that are presented in Fig 3 of the main text of the article are not included here, and hence the discontinued numbering. OS: outer segment; IS: inner segment.

P50L/GCAP1



Supplementary Figure S8. Subcellular distribution of GCAP2 in individual rod photoreceptor cells of GCAP1/2 knockout mice transfected with bG161R/GCAP2. The cells that were taken into account for determination of GCAP2 distribution to rod outer segments are numbered. The cells that are presented in Fig 4 of the main text of the article are not included here, and hence the discontinued numbering. OS: outer segment; IS: inner segment.

G161R/GCAP2

