

Comments on the deposited data files for the figures presented in the publication “Molecular logics in dual sensor regulation of diguanylate cyclase activity - Phosphorylation OR blue-light activation” (<https://doi.org/10.1002/pro.70765>).

Main Figures:

Figure 1	A	AF2 model of <i>LaRldC</i> - LaRldC_AF2.pdb
	B - C	Full alignment shown in Figure S1
	D	Images were taken with a Canon EOS 1100D using a 28-80 mm lens. No processing was done; the picture was simply cropped to allow easier comparison. Full image available as Figure S14.
Figure 2	A	The axis title, units and illumination time are provided in the file header; the column separator is a comma “,”. Raw data can be found in the file: Figure_2_A_ApRldC_dark_light.csv
	B	The axis title, units and illumination time are provided in the file header; the column separator is a comma “,”. Raw data can be found in the file: Figure_2_B_CpRldC_dark_light.csv
	C	The axis title, units and illumination time are provided in the file header; the column separator is a comma “,”. Raw data can be found in the file: Figure_2_C_LaRldC_dark_light.csv
	D	The axis title, units and illumination time are provided in the file header; the column separator is a comma “,”. Raw data can be found in the file: Figure_2_D_LsRldC_dark_light.csv
	E	The axis title, units and illumination time are provided in the file header; the column separator is a comma “,”. Raw data can be found in the file: Figure_2_E_RoRldC_dark_light.csv
	F	The axis title and units are provided in the file header; the column separator is a comma “,”. Raw data can be found in the file: Figure_2_F_RldC_recovery.csv
Figure 3	A	The axis title, units and illumination time are provided in the file header; the column separator is a comma “,”. Raw data can be found in the file: Figure_3_A_LaRldC_C207S_spectra.csv
	B	The axis title, units and illumination time are provided in the file header; the column separator is a comma “,”. Raw data can be found in the file: Figure_3_B_LaRldC_C207S_photoreduction.csv
Figure 4	A	Full image available as Figure S15.
	B	The axis title and units are provided in the file header; the column separator is a comma “,”. Raw data can be found in the file: Figure_4_B_LaRldC_influence_of_phosphorylation_on_recovery
Figure 5		The axis title, units, and sample names are provided in the file; the column separator is a comma “,”. File name: Figure_5_DGC_activities_100µM_GTP_HPLC.csv

Supplemental Material:

Figure S1		Full alignment is provided. File name: RldC_alignment.fasta
Figure S2		No relevant raw data
Figure S3	A - B	The axis title, units, and sample names are provided in the file; the column separator is a comma ",". File name: Figure_S3_A_B_Absorption_spectra_La_Cp_RldC.csv
Figure S4	A - D	The axis title, units, and sample names are provided in the file; the column separator is a comma ",". File name: Figure_S4_HPLC_traces_and_spectra.csv
Figure S5		The axis title, units, and sample names are provided in the file; the column separator is a comma ",". File name: Figure_S5_FPLC_traces_RoRldC.csv
Figure S6	A - D	Raw mass spectra and maximum entropy deconvoluted spectra are provided for all measured samples as separate csv files in individual subfolders. The axis titles are provided in the file; the column separator is a comma ",". Folders for each sample contain the following files: Raw_compound_spectrum.csv Deconvoluted_compound_spectrum.csv
Figure S7	A - B	The axis title, units, illumination time and LED type are provided in the file header; the column separator is a comma ",". Raw data can be found in the file: Figure_S7_LaRldC_light_quality_influence.csv
Figure S8	A - C	Raw data used for exponential fits can be found in the file provided for Figure 2F.
Figure S9		The axis title, units and illumination time are provided in the file header; the column separator is a comma ",". Raw data can be found in the file: Figure_S9_LaRldC_UV_illumination.csv
Figure S10	A - B	Raw mass spectra and maximum entropy deconvoluted spectra are provided for all measured samples as separate csv files in individual subfolders. The axis titles are provided in the file; the column separator is a comma ",". Folders for each sample contain the following files: Raw_compound_spectrum.csv Deconvoluted_compound_spectrum.csv
Figure S11		The axis title and units are provided in the file header; the column separator is a comma ",". Raw data can be found in the file: Figure_S11_activation_LaRldC_with_and_without_phosphorylation.csv
Figure S12		The axis title and units are provided in the file header; the column separator is a comma ",". Raw data can be found in the file: Figure_S12_LaRldC_activity_concentration_dependence.csv
Figure S13	A - B	The axis title and units are provided in the file header; the column separator is a comma ",". Raw data can be found in the file: Figure_S13_RldC_homologs_dark_light_overlaid.csv
Figure S14		Raw uncompressed image provided as In_vivo_DGC_assay.jpg
Figure S15		Raw uncompressed image provided as Figure_S15_Phos_tag_SDS_PAGE_CpLaRo.tiff
Table S2		Raw mass spectra and maximum entropy deconvoluted spectra are provided for all measured samples as separate csv files in individual subfolders. The axis titles are provided in the file; the column separator is a comma ",". Folders for each sample contain the following files: Raw_compound_spectrum.csv Deconvoluted_compound_spectrum.csv