

Magn. Reson. Discuss., editor comment EC1
<https://doi.org/10.5194/mr-2022-11-EC1>, 2022
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Comment on mr-2022-11

Dominique Frueh (Editor)

Editor comment on "Site-selective generation of lanthanoid binding sites on proteins using 4-fluoro-2,6-dicyanopyridine" by Sreelakshmi Mekkattu Tharayil et al., Magn. Reson. Discuss., <https://doi.org/10.5194/mr-2022-11-EC1>, 2022

Dear Dr Otting,

Thank you for submitting your manuscript to Magnetic Resonance.

Two reviewers have posted comments in the discussion. They agree that this work fits the scope of Magnetic Resonance and found that this work provides a significant advance in the field.

However, they found a number of points that need to be addressed before publication.

I attract your attention to the need to provide affinities, as well as the need to address the comments regarding DEER.

Please modify your manuscript accordingly, making sure you respond to all points raised by the referees.

In addition, please account for the following during your revisions to ensure reproducibility or clarity:

Several plasmids are mentioned but no identifiers are provided. Provide the identifiers for all your new plasmids so readers can request them easily.

"prepared specifically for the present work by cloning the gene between the NdeI and EcoRI sites of the T7 vector pETMCSI". This is unclear: please specify what gene in detail and provide the primers.

"0.2 mL/L trace metal mixture" either provide a reference or provide the composition of your stock solution if it departs from published protocols.

Specify that the Ni-NTA column is His GraviTrap TALON when first mentioning His-tag purification since you later refer to this column but had not provided its description.

For FDCP tagging, please specify how the buffer was exchanged in detail (specifying the column if using a column, specifying the number of cycles if using dilution/concentration, etc.)

Please verify that all acronyms and abbreviations are defined. For example, RQ-SLIC is not defined.

Please specify the vendor when referring to a product, including identifiers if several options are available. This condition is in general respected but not always. For example, QuickChange needs the vendor information (assuming you indeed used a kit).

There are a few typos or grammatical mishaps that occasionally distract readers in an otherwise well-written manuscript. Please give this manuscript another round of proof reading after modifying it.

Examples "useful for the structural characterisation of protein", "Samples were produced of nine different proteins".

"Standard expression" --> "Expression in rich media" or "Expression for unlabeled proteins"

I look forward to reading your response and a revised version of your manuscript that addresses the reviewers' concerns.

Best wishes,

Dominique Frueh