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| **Title of Proposed Research** |
|       |
| **Principal Investigator** |
| Last Name |       | First Name |       |
| Institution: |       |
| Mailing Address: |       |
| Citizenship: |       | Visiting ORNL? |       |
| E-mail: |       | Phone: |       | Fax: |       |
| **Other Participant(s)** | Please list all participants who will work on this project. |
| Name: | Institution and Address: | E-mail: | Citizenship: | Visiting ORNL? |
|       |       |       |       |       |
| **Biomaterial of Interest**  |  |
| Name: |       | Molecular Wt. (kDa): |       |
| Species: |       |
| Current Expression Host (*E.coli* preferred): | E.coli [ ]  | Yeast [ ]  | Insect [ ]  | Strain(s) used: |       |
| Expression System: (i.e. pET) |       | Biosafety Level: |  1[ ]  2[ ]  3[ ]  |
| Are these organisms/strains select agents or toxins regulated under 42 CFR 73 by CDC/DHHS/APHIS? | Yes [ ]  | No [ ]  |
| Media (list all that have been used): |       | IPTG Inducible? | Yes [ ]  | No [ ]  |
| Inclusion Bodies? | Yes [ ]  | No [ ]  | If No, Estimated soluble Fraction? |       |
| Yield (mg/L media): |       | Required Cofactors: |       |
| Is the sample unstable? | Yes [ ]  | No [ ]  | If Yes, do you intend to purify this material @ ORNL? | Yes [ ]  | No [ ]  |
| **Proposed Research** |
| On separate pages, briefly summarize the project and follow with a complete description of the protocol(s) and media recipe(s) that have been used to express the material of interest.**Please limit your summary and description to two pages and include the following:**(1) An image of an SDS-PAGE gel indicating the pre- and post-induction expression level;(2) Reference(s) to published preps (if any);(3) Information regarding prior work carried out at ORNL beamlines or user laboratories related to this proposal;(4) Information regarding prior attempts (if any) to deuterate;(5) Information regarding the amount of sample and level of deuteration required for your assigned beamtime; |