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| **Title of Proposed Research** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **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? | | | |
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| **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; | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |