**Authentication of Key Biological and/or Chemical Resources**

Instructions: (**Remove all blue text after completing this attachment**. Upload this attachment as a PDF to Kuali.).

Format: Attach this information as a PDF file. See NIH's Format Attachments page.

Content: If applicable to the proposed science, briefly describe methods to ensure the identity and validity of key biological and/or chemical resources used in the proposed studies. A maximum of one page is suggested.

Key biological and/or chemical resources are characterized as follows.

* Key biological and/or chemical resources may or may not be generated with NIH funds and: 1) may differ from laboratory to laboratory or over time; 2) may have qualities and/or qualifications that could influence the research data; and 3) are integral to the proposed research. These include, but are not limited to, cell lines, specialty chemicals, antibodies, and other biologics.
* Standard laboratory reagents that are not expected to vary do not need to be included in the plan. Examples are buffers and other common biologicals or chemicals.

See NIH's page on Rigor and Reproducibility for more information.