

Design Of Ultrabright Biosensor For Dynamic Kinase Imaging

Tech ID: 34623 / UC Case 2026-021-0

INVENTION NOVELTY

VALUE PROPOSITION

TECHNOLOGY DESCRIPTION

UCSF researchers have developed an ultrabright and generalizable biosensor that can be used in live cells to measure the activity of various kinases. The design is modular and extensible: incorporating kinase-specific docking sites and compatible with different fluorescent proteins allowing flexibility for multicolor imaging or multiplexed experiments. This research tool appears to be the first of its kind and has an opportunity to replace current live cell kinase assays, as current systems require significant modifications to the target kinase.

APPLICATION

LOOKING FOR PARTNERS

STAGE OF DEVELOPMENT

RELATED MATERIALS

DATA AVAILABILITY

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OTHER INFORMATION

KEYWORDS

Protein kinases, kinase reporter, biosensor, bioassay, research tool, live cells, visualizing dynamics, cell signaling, UCSF innovation

CATEGORIZED AS

- ▶ **Imaging**
- ▶ Molecular
- ▶ **Research Tools**
- ▶ Reagents
- ▶ Screening Assays

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