

# pJEK21 Gamma-Synuclein Vector

**Catalogue number:** 152050

**Sub-type:**

**Images:**

## Contributor

**Inventor:** Dr Fiona Benson

**Institute:** Lancaster University

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** pJEK21 Gamma-Synuclein Vector

**Alternate name:**

**Class:**

**Conjugate:**

**Description:** pJEK21 is a derivative of pET15b with the open reading frame encoding the human gamma-synuclein (pJEK21-synuclein) cloned in via the NdeI and BamHI restriction sites. In this construct pJEK21-synuclein is expressed as a fusion protein with an N-terminal six His tag.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:**

**Reactivity:**

**Selectivity:**

**Host:**

**Immunogen:**

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:**

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:** Gamma synuclein is structurally related to alpha-synuclein. Due to these structural similarities, gamma-synuclein can also aggregate in vitro and in vivo. This aggregation is believed to be a crucial trigger of neurodegeneration in alpha-synucleinopathies. Motor neurones express high levels of gamma-synuclein, with the protein highly abundant in their axons, where it might affect organisation of axonal cytoskeleton.

## Target details

**Target:**

**Target alternate names:**

**Target background:**

**Molecular weight:**

**Ic50:**

## Applications

**Application:**

**Application notes:** pJEK21 is a derivative of pET15b with the open reading frame encoding the human gamma-synuclein ( $\hat{\text{I}}^3$ -synuclein) cloned in via the NdeI and BamHI restriction sites. In this construct  $\hat{\text{I}}^3$ -synuclein is expressed as a fusion protein with an N-terminal six His tag.

## Handling

**Format:**

**Concentration:**

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:**

**Storage conditions:**

**Shipping conditions:**

## Related tools

**Related tools:**

# References

References:

CancerTools.org