

# pCMV-iNOS Vector

**Catalogue number:** 153287

**Sub-type:** pcDNA 3.1

**Images:**

## Contributor

**Inventor:** Helen McCarthy

**Institute:** Queen's University Belfast

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** pCMV-iNOS Vector

**Alternate name:** Nitric Oxide Synthase

**Class:**

**Conjugate:**

**Description:** pCMV-iNOS Plasmid is a human nitric oxide synthase (iNOS) transgene driven by a constitutively active CMV (cytomegalovirus) promoter. Originally developed as an anti-cancer therapeutic with a view to a gene therapy strategies that address hormone refractory prostate cancer (HRPC). Studies in the literature have demonstrated that this plasmid is capable of delaying tumour growth (Adams et al., 2009). The plasmid serves as a useful tool in cardiovascular studies or any physiology associated with vasodilation.

**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:**

## Target details

**Target:** Inducible Nitric Oxide Synthase

**Target alternate names:**

**Target background:**

**Molecular weight:**

**Ic50:**

## Applications

**Application:**

**Application notes:** Recommended for transformation in DH5 alpha bacterial cells, iNOS gene is 4.4kb

## Handling

**Format:**

**Concentration:**

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:**

**Storage conditions:** -80° C

**Shipping conditions:** Dry Ice

## Related tools

**Related tools:** phOC-iNOS Vector

# References

References:

CancerTools.org