

- RGAs Assays
- Heavy Metal Reporter Gene Assay
- Angiogenic Reporter Gene Assay
- Customized Products Option

Heavy Metal Reporter Gene Assay

PREMAS Biotech offers metal responsive reporter gene vector(s) with a property to qualitatively detect metals or heavy metals. The reporter gene vector explores the basic research discoveries in metallobiochemistry by the pharmaceutical industry. The reporter gene assay role is pivotal in studying homeostasis as well as the roles of metals in regulation of cell function and cell-cell interactions are areas of potential growth.

Metal-containing agents may offer unique therapeutic opportunities. However, significant obstacles, including potential metal accumulations and toxicities, require further research before the promise of medicinal inorganic chemistry can be realized.

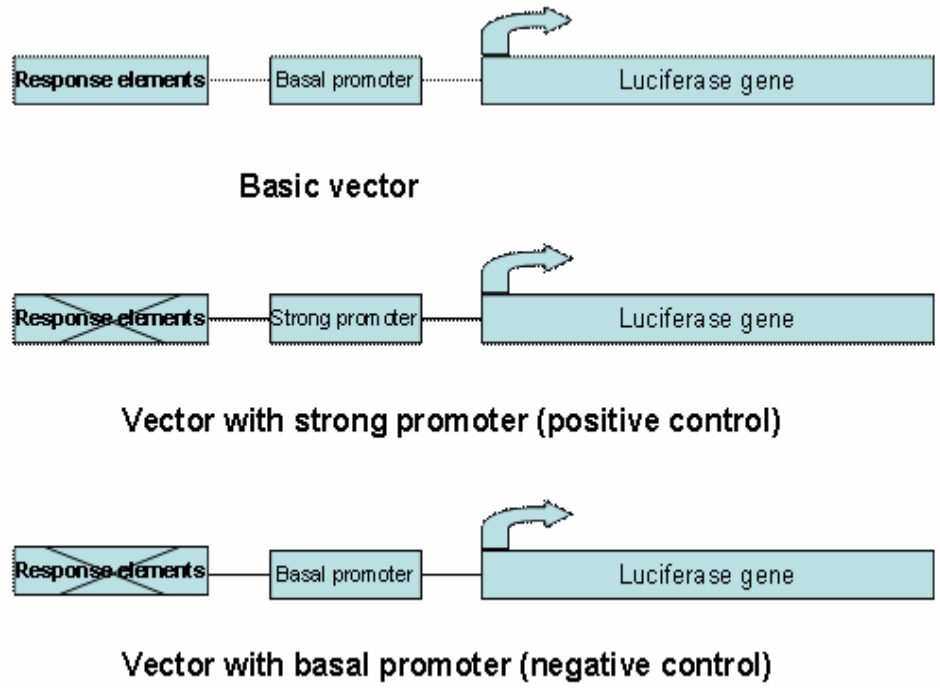


Fig1. Horizontal gene bar diagram for (a) Basic Vector (B) Vector with strong promoter (positive control) (C) Vector with strong promoter (negative control).

FEATURES

- PREMAS biotech offers 96 well plate luciferase based reporter gene assays to detect heavy metals in mammalian system
- PREMAS biotech offers 96 well plate luciferase based reporter gene assays to detect heavy metals in yeast system
- Elucidation of the roles of metals in cell regulation, signal transduction and cell-cell signaling.
- Identification and understanding of metal-responsive oxygen and redox responsive transcriptional and translational regulators, and mRNAs and their potential as therapeutic targets.
- Elucidation of the mechanistic roles of essential trace elements for which metabolic functions are not yet clearly established.
- Biomarkers for susceptibility to metal toxicity in the human population.

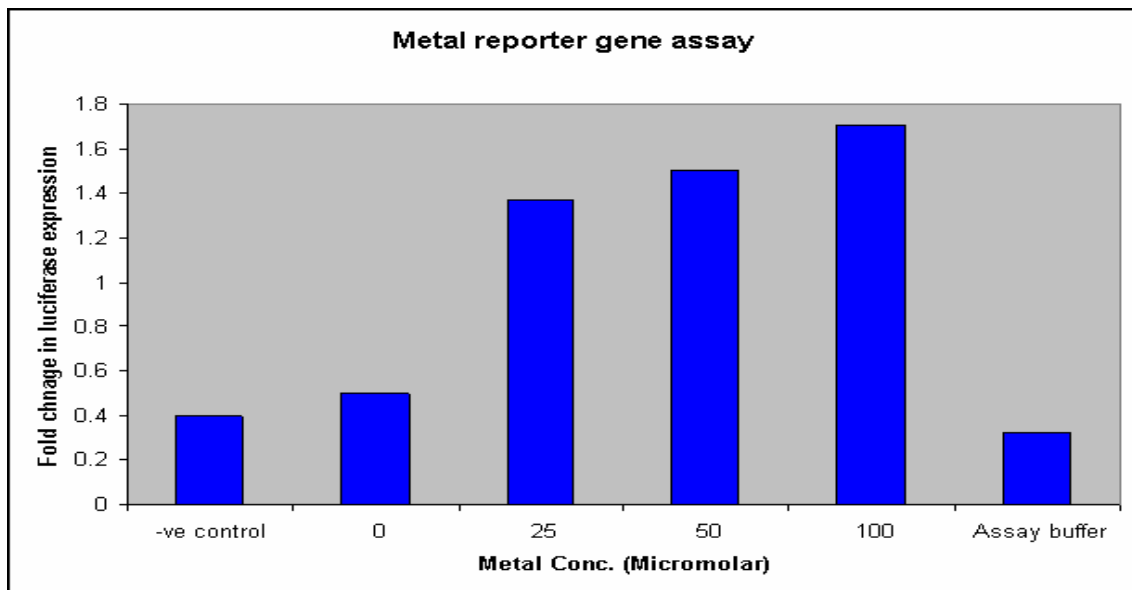


Fig2. Metal reporter gene assay showing fold change in luciferase expression with increasing metal Concentration along with appropriate controls.

- **Intellectual Property Rights: Patents have been filed by PREMAS Biotech Pvt Ltd, India.**
- **Contact for pricing and information**

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