
Antibody Expression Vector

pFB-CHIg-rG: Rabbit IgG Mammalian Expression Vector

Catalog#: AEV-25

Product Overview

This vector is a constitutive mammalian expression vector designed to deliver exceptionally high levels of antibody expression. This circular vector features an enhanced, full-length CMV promoter and other expression elements that typically enable higher expression levels. It can be used in suspension-adapted cells, such as Expi293F™ and ExpiCHO™, for transient protein expression. Additionally, it can serve as a Geneticin®-selectable expression plasmid for engineering stable cell lines. The vector carries an ampicillin resistance gene.

Specifications

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| Antibiotic Resistance | Ampicillin (AmpR) |
| Constitutive or Inducible System | Constitutive |
| Delivery Type | Transfection |
| Promoter | CMV |
| Product Type | Mammalian Expression Vector |
| Cloning Method | Restriction Enzyme (5'-AgeI; 3'-XhoI) or Homologous Assembly |

Contents & Storage

- 20 µg of pFB-CHIg-rG in Tris-EDTA buffer
- Store at -20°C. Vectors are guaranteed stable for 6 months when properly stored.

Materials required for antibody generation and isotype switching

- pFB-CLIg-rk1 or pFB-CLIg-rl plasmid that expression the constant region of the rabbit kappa or lambda light chain.

Vector usage



- **Entire rabbit IgG monoclonal antibodies production:** cloning your heavy/light chain variable regions in the cloning sites to preserve the integrity of the heavy/light chain constant region;
- **Isotype switching:** pFB-CHlg-rG with pFB-CLlg-rk1 or pFB-CLlg-rl plasmids are designed to switch a monoclonal antibody from one isotype to another, therefore, maintaining the generated new antibodies with the same antigen affinity (epitopes) but with different effector functions (enhanced or reduced or even disabled ADCC and CDC).

Vector map

