

# Product Information

## MemDX™ Human EGFR (A763, Y764insFQEA, T790M) BaF3 Cell Line

Cat. No.: **S01YF-1222-KX695**

This product is for research use only and is not intended for diagnostic use.

### Product Information

#### Target Protein

EGFR (A763, Y764insFQEA, T790M)

#### Target Protein Species

Human

#### Accession Number

NM\_005228.3

#### Protein Tag

Tag-free

#### Host Cell Type

BaF3

#### Target Classification

Kinases/Enzyme

#### Target Family

Kinases/Enzyme

#### Target Research Area

Cancer Research; Inflammation Research

#### Related Diseases

Inflammatory Skin And Bowel Disease; Lung Cancer

### Product Properties

#### Morphology

Suspension

#### Assay Types

Drug screening and biological assays

#### Resistance

Puromycin

#### Stability

10 passages

### **Mycoplasma Testing**

Negative

### **Biosafety Level**

Level 1

### **Activity**

Yes

### **Quantity**

5x10<sup>6</sup> cells

### **Form**

Frozen cells

### **Freeze Medium**

70% RPMI 1640 + 20% FBS + 10% DMSO

### **Culture Medium**

RPMI 1640 + 10% FBS

### **Selective Antibiotic(s)**

Regular antibiotics active against mycoplasmas, bacteria and fungi.

### **Handling Notes**

Frozen cells should be thawed immediately upon receipt and grown according to handling procedure to ensure cell viability and proper assay performance.

Note: Do not freeze the cells upon receipt as it may result in irreversible damage to the cell line.

Disclaimer: We cannot guarantee cell viability if the cells are not thawed immediately upon receipt and grown according to handling procedure.

### **Incubation**

37°C with 5% CO<sub>2</sub>

### **Applications**

Drug screening and biological assays

### **Application Notes**

Cells were plated in a 384-well plate and incubated overnight at 37°C and 5% CO<sub>2</sub> to allow the cells to attach and grow. Cells were then stimulated with a control for high-throughput drugs screening and functional assays.

### **Use Restrictions**

These cells are distributed for research use only.

### **Shipping**

Dry ice

### **Storage**

Liquid nitrogen

### **Target**

### **Full Name**

### Introduction

The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor, thus inducing receptor dimerization and tyrosine autophosphorylation leading to cell proliferation. Mutations in this gene are associated with lung cancer. EGFR is a component of the cytokine storm which contributes to a severe form of Coronavirus Disease 2019 (COVID-19) resulting from infection with severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2).

### Alternative Names

EGFR; ERBB; ERBP; HER1; mENA; ERBB1; PIG61; NISBD2; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; epidermal growth factor receptor tyrosine kinase domain; erb-b2 receptor tyrosine kinase 1; proto-oncogene c-ErbB-1; receptor tyrosine-protein kinase erbB-1; Epidermal growth factor receptor

### Gene ID

[1956](#)

### UniProt ID

[P00533](#)