

# Product Information

## MemDX™ Mouse FGFR2 Panc02 Cell Line

Cat. No.: **S01YF-0324-KX137**

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

### Product Information

#### Target Protein

FGFR2

#### Target Protein Species

Mouse

#### Host Cell Type

Panc02

#### Target Classification

Kinases/Enzyme

#### Target Family

Kinases/Enzyme

#### Target Research Area

Metabolic Research

#### Related Diseases

Pfeiffer Syndrome; Crouzon Syndrome

### Product Properties

#### Assay Types

Functional assay and biological assay

#### Mycoplasma Testing

Negative

#### Biosafety Level

Level 1

#### Activity

Yes

#### Form

Frozen cells

#### 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

Fibroblast growth factor receptor 2

### Introduction

The protein encoded by this gene is a member of the fibroblast growth factor receptor family, where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein consists of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member is a high-affinity receptor for acidic, basic and/or keratinocyte growth factor, depending on the isoform. Mutations in this gene are associated with Crouzon syndrome, Pfeiffer syndrome, Craniosynostosis, Apert syndrome, Jackson-Weiss syndrome, Beare-Stevenson cutis gyrata syndrome, Saethre-Chotzen syndrome, and syndromic craniosynostosis. Multiple alternatively spliced transcript variants encoding different isoforms have been noted for this gene.

### Alternative Names

FGFR2; BEK; JWS; BBDS; CEK3; CFD1; ECT1; KGFR; TK14; TK25; BFR-1; CD332; K-SAM; BEK fibroblast growth factor receptor; bacteria-expressed kinase; keratinocyte growth factor receptor; protein tyrosine kinase, receptor like 14; Fibroblast growth factor receptor 2

### Gene ID

2263

### UniProt ID

P21802