

# Product Information

## MemDX™ Human FGFR2 CT26 Cell Line

Cat. No.: **S01YF-0123-KX100**

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

### Product Information

#### Target Protein

FGFR2

#### Target Protein Species

Human

#### Accession Number

NM\_022970.3

#### Protein Tag

Tag-free

#### Host Cell Type

CT26

#### Target Classification

Kinases/Enzyme

#### Target Family

Kinases/Enzyme

#### Target Research Area

Reproductive Research

#### Related Diseases

Pfeiffer Syndrome; Crouzon Syndrome

### Product Properties

#### Morphology

Fibroblastoid cells growing as a monolayer

#### Assay Types

Drug screening and biological assays

#### Resistance

Puromycin

#### Mycoplasma Testing

Negative

**Sterility Testing**

10 passages

**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 + 10µg/mL Puromycin

**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 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](#)