

# Product Information

## MemDX™ Human NTRK1 & LMNA (G595R) BaF3 Cell Line

Cat. No.: **S01YF-1222-KX828**

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

### Product Information

#### Target Protein

NTRK1 & LMNA (G595R)

#### Target Protein Species

Human

#### Protein Tag

Tag-free

#### Host Cell Type

BaF3

#### Target Classification

Kinases/Enzyme

#### Target Family

Kinases/Enzyme

#### Target Research Area

Cancer Research; CNS Research

#### Related Diseases

Insensitivity To Pain; Thyroid Carcinoma

### 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**

Neurotrophic receptor tyrosine kinase 1

### **Introduction**

This gene encodes a member of the neurotrophic tyrosine kinase receptor (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. The presence of this kinase leads to cell differentiation and may play a role in specifying sensory neuron subtypes. Mutations in this gene have been associated with congenital insensitivity to pain, anhidrosis, self-mutilating behavior, cognitive disability and cancer. Alternate transcriptional splice variants of this gene have been found, but only three have been characterized to date.

**Alternative Names**

NTRK1; MTC; TRK; TRK1; TRKA; Trk-A; p140-TrkA; high affinity nerve growth factor receptor; Oncogene TRK; TRK1-transforming tyrosine kinase protein; gp140trk; neurotrophic tyrosine kinase, receptor, type 1; tropomyosin-related kinase A; tyrosine kinase receptor A; Neurotrophic receptor tyrosine kinase 1

**Gene ID**

[4914](#)

**UniProt ID**

[P04629](#)