

# Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
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## Zuschläge

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- Expressversand

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#### SANTA CRUZ BIOTECHNOLOGY, INC.

## TGN38 shRNA (m) Lentiviral Particles: sc-44806-V



#### BACKGROUND

TGN38 (trans-Golgi network protein 2) is a type I integral membrane protein that constitutively cycles between the TGN and plasma membrane where it partitions nascent proteins into carrier vesicles for transport to appropriate destinations in the cell. The cytosolic domain of TGN38 interacts with AP2 Clathrin adaptor complexes via the tyrosine-containing motif (SDYQRL) to direct internalization from the plasma membrane. N- and O-linked oligosaccharide chains attach to the core TGN38 protein to produce a protein present in brain, lung and kidney.

#### REFERENCES

- 1. Luzio, J.P., et al. 1990. Identification, sequencing and expression of an integral membrane protein of the trans-Golgi network (TGN38). Biochem. J. 270: 97-102.
- 2. Ghosh, R.N., et al. 1998. An endocytosed TGN38 chimeric protein is delivered to the TGN after trafficking through the endocytic recycling compartment in CHO cells. J. Cell Biol. 142: 923-936.
- 3. Stephens, D.J. and Banting, G. 1999. Direct interaction of the trans-Golgi network membrane protein, TGN38, with the F-Actin binding protein, neurabin. J. Biol. Chem. 274: 30080-30086.
- 4. Lee, S.S., et al. 2002. Characterisation of the lumenal domain of TGN38 and effects of elevated expression of TGN38 on glycoprotein secretion. Eur. J. Cell Biol. 81: 609-621.
- 5. Bauer, R.A., et al. 2004. Retention and stimulus-dependent recycling of dense core vesicle content in neuroendocrine cells. J. Cell Sci. 117: 2193-2202.
- 6. Saint-Pol, A., et al. 2004. Clathrin adaptor epsinR is required for retrograde sorting on early endosomal membranes. Dev. Cell 6: 525-538.
- 7. Online Mendelian Inheritance in Man, OMIM™. 2006. Johns Hopkins University, Baltimore, MD. MIM Number: 603062. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/

#### CHROMOSOMAL LOCATION

Genetic locus: Tgoln1/Tgoln2 (mouse) mapping to 6 C1.

#### PRODUCT

TGN38 shRNA (m) Lentiviral Particles is a pool of concentrated, transduction-ready viral particles containing 3 target-specific constructs that encode 19-25 nt (plus hairpin) shRNA designed to knock down gene expression. Each vial contains 200 µl frozen stock containing 1.0 x 10<sup>6</sup> infectious units of virus (IFU) in Dulbecco's Modified Eagle's Medium with 25 mM HEPES pH 7.3. Suitable for 10-20 transductions. Also see TGN38 siRNA (m): sc-44806 and TGN38 shRNA Plasmid (m): sc-44806-SH as alternate gene silencing products.

#### **STORAGE**

Store lentiviral particles at -80° C. Stable for at least one year from the date of shipment. Once thawed, particles can be stored at 4° C for up to one week. Avoid repeated freeze thaw cycles.

#### **APPLICATIONS**

TGN38 shRNA (m) Lentiviral Particles is recommended for the inhibition of TGN38 expression in mouse cells.

#### SUPPORT REAGENTS

Control shRNA Lentiviral Particles: sc-108080. Available as 200 µl frozen viral stock containing 1.0 x 10<sup>6</sup> infectious units of virus (IFU); contains an shRNA construct encoding a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA.

#### **RT-PCR REAGENTS**

Semi-guantitative RT-PCR may be performed to monitor TGN38 gene expression knockdown using RT-PCR Primer: TGN38 (m)-PR: sc-44806-PR (20 µl, 461 bp). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

#### **BIOSAFETY**

Lentiviral particles can be employed in standard Biosafety Level 2 tissue culture facilities (and should be treated with the same level of caution as with any other potentially infectious reagent). Lentiviral particles are replication-incompetent and are designed to self-inactivate after transduction and integration of shRNA constructs into genomic DNA of target cells.

#### **RESEARCH USE**

The purchase of this product conveys to the buyer the nontransferable right to use the purchased amount of the product and all replicates and derivatives for research purposes conducted by the buyer in his laboratory only (whether the buyer is an academic or for-profit entity). The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party, or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes.

#### **PROTOCOLS**

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