

## **Product datasheet for RC228103**

## MOSMO (NM 001164579) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** MOSMO (NM\_001164579) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: MOSMO

Synonyms: ATTHOG; BC030336; C16orf52

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC228103 representing NM\_001164579
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GTTTACCAGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228103 representing NM\_001164579

Red=Cloning site Green=Tags(s)

MDKLTIISGCLFLAADIFAIASIANPDWINTGESAGALTVGLVRQCQTIHGRDRTCIPPRLPPEWVTTLFFIIMGIISLTVTCGLLVASHWRREATKYARWIAFTGMILFCMAALIFPIGFYINEVGGQPYKLPNNTVVG

SSYVLFVLSIFFTIVGLLFAGKVCLPG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk8039">https://cdn.origene.com/chromatograms/mk8039</a> a03.zip



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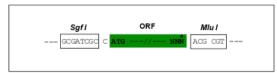


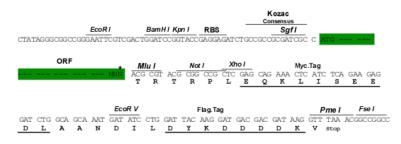
**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 

Cloning sites used for ORF Shuttling:





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_001164579

ORF Size: 501 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:** 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

**RefSeq:** <u>NM 001164579.2</u>

 RefSeq ORF:
 504 bp

 Locus ID:
 730094

 UniProt ID:
 Q8NHV5

 Cytogenetics:
 16p12.2



**MW:** 18.1 kDa

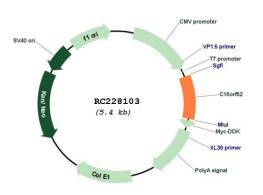
**Gene Summary:** Acts as a negative regulator of hedgehog signaling probably by promoting internalization and

subsequent degradation of smoothened protein (SMO) present in the ciliary membrane. Plays

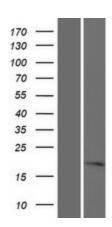
a role in sonic hedgehog (SHH)-induced spinal neural progenitor cells differentiation.

[UniProtKB/Swiss-Prot Function]

## **Product images:**



Circular map for RC228103



Western blot validation of overexpression lysate (Cat# [LY431131]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228103 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).