

Product datasheet for MR226199L3

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Smurf1 (NM_001038627) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Smurf1 (NM_001038627) Mouse Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: Smurf1

Synonyms: 4930431E10Rik; mKIAA1625

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(MR226199).

Sgfl-Mlul

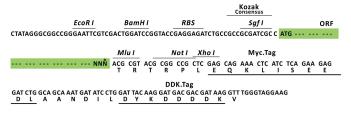
Sequence:

Restriction Sites: Cloning Scheme:

Cloning sites used for ORF Shuttling:

Sgf 1 ORF Mlu I

GGG ATC GC ATG ---//--- NNN ACG CGT ---

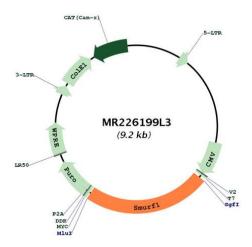


^{*} The last codon before the Stop codon of the ORF.





Plasmid Map:



ACCN: NM_001038627

ORF Size: 2193 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 001038627.1</u>, <u>NP 001033716.1</u>

RefSeq Size: 5333 bp **RefSeq ORF:** 2196 bp



Smurf1 (NM_001038627) Mouse Tagged Lenti ORF Clone - MR226199L3

Locus ID: 75788
UniProt ID: Q9CUN6
Cytogenetics: 5 G2

Gene Summary: E3 ubiquitin-protein ligase that acts as a negative regulator of BMP signaling pathway (By

similarity). Mediates ubiquitination and degradation of SMAD1 and SMAD5, 2 receptor-regulated SMADs specific for the BMP pathway (By similarity). Promotes ubiquitination and subsequent proteasomal degradation of TRAF family members and RHOA (By similarity).

Promotes ubiquitination and subsequent proteasomal degradation of MAVS

(PubMed:23087404). Plays a role in dendrite formation by melanocytes (By similarity).

[UniProtKB/Swiss-Prot Function]