

Product datasheet for MR216928L3

Smurf2 (NM_025481) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Smurf2 (NM_025481) Mouse Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: Smurf2

Synonyms: 2810411E22Rik; AI558114; AI649275

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(MR216928).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.

ACCN: NM_025481

ORF Size: 2247 bp



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Smurf2 (NM_025481) Mouse Tagged Lenti ORF Clone - MR216928L3

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 025481.2</u>, <u>NP 079757.2</u>

RefSeq Size: 5346 bp
RefSeq ORF: 2247 bp
Locus ID: 66313
UniProt ID: A2A5Z6
Cytogenetics: 11 E1

Gene Summary: E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme

in the form of a thioester and then directly transfers the ubiquitin to targeted substrates.

Interacts with SMAD1 and SMAD7 in order to trigger their ubiquitination and proteasome-

dependent degradation. In addition, interaction with SMAD7 activates autocatalytic

degradation, which is prevented by interaction with SCYE1. Forms a stable complex with the TGF-beta receptor-mediated phosphorylated SMAD2 and SMAD3. In this way, SMAD2 may

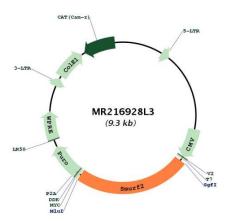
recruit substrates, such as SNON, for ubiquitin-mediated degradation. Enhances the inhibitory activity of SMAD7 and reduces the transcriptional activity of SMAD2. Coexpression

of SMURF2 with SMAD1 results in considerable decrease in steady-state level of SMAD1

protein and a smaller decrease of SMAD2 level.[UniProtKB/Swiss-Prot Function]



Product images:



Circular map for MR216928L3