

Product datasheet for **SC303271**

SLIT1 (NM_003061) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | SLIT1 (NM_003061) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | SLIT1 |
| Synonyms: | MEGF4; SLIL1; SLIT-1; SLIT3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >SC303271 representing NM_003061. Blue=Insert sequence Red=Cloning site Green=Tag(s) |

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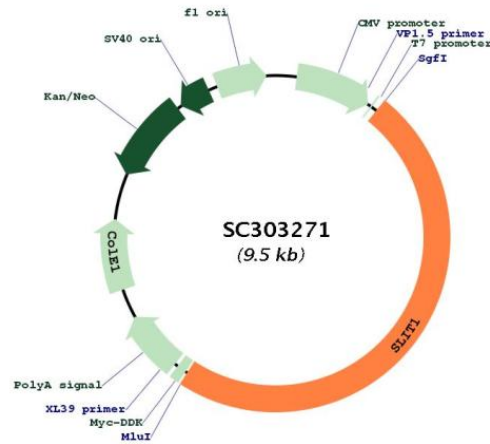


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Restriction Sites:

Sgfl-Mlul

Plasmid Map:


ACCN: NM_003061

Insert Size: 4605 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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: [NM_003061.2](#)

RefSeq Size: 7949 bp

RefSeq ORF: 4605 bp

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|--------------------------|---|
| Locus ID: | 6585 |
| UniProt ID: | O75093 |
| Cytogenetics: | 10q24.1 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Axon guidance |
| MW: | 167.9 kDa |
| Gene Summary: | Thought to act as molecular guidance cue in cellular migration, and function appears to be mediated by interaction with roundabout homolog receptors. During neural development involved in axonal navigation at the ventral midline of the neural tube and projection of axons to different regions (By similarity). SLIT1 and SLIT2 together seem to be essential for midline guidance in the forebrain by acting as repulsive signal preventing inappropriate midline crossing by axons projecting from the olfactory bulb.[UniProtKB/Swiss-Prot Function] |