

## Product datasheet for **MG227608**

### Slit2 (NM\_178804) Mouse Tagged ORF Clone

#### Product data:

|                           |                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                   |
| Product Name:             | Slit2 (NM_178804) Mouse Tagged ORF Clone                                              |
| Tag:                      | TurboGFP                                                                              |
| Symbol:                   | Slit2                                                                                 |
| Synonyms:                 | b2b1200.1Clo; Drad; Drad-1; E030015M03Rik; E130320P19Rik; mKIAA4141; S; Slil3; slit-2 |
| Mammalian Cell Selection: | Neomycin                                                                              |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                               |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                                |
| Restriction Sites:        | SgfI-MluI                                                                             |
| Cloning Scheme:           |                                                                                       |

Cloning sites used for ORF Shuttling:



|           |           |
|-----------|-----------|
| ACCN:     | NM_178804 |
| ORF Size: | 4563 bp   |



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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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:** [NM\\_178804.5](#), [NP\\_848919.3](#)

**RefSeq Size:** 7988 bp

**RefSeq ORF:** 4566 bp

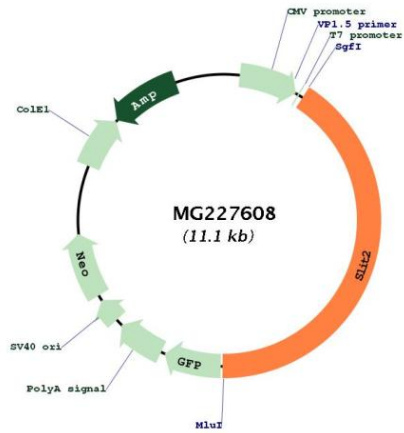
**Locus ID:** 20563

**UniProt ID:** [Q9R1B9](#)

**Cytogenetics:** 5 B3

**Gene Summary:** The protein encoded by this gene is a member of the Slit family of secreted glycoproteins, which function as ligands for the Robo family of immunoglobulin receptors. Slit proteins play highly conserved roles in axon guidance and neuronal migration and may also have functions during other cell migration processes including leukocyte migration. In mammals, members of the slit family are characterized by an N-terminal signal peptide, four leucine-rich repeats, nine epidermal growth factor repeats, and a C-terminal cysteine knot. Mice deficient for this gene exhibit abnormal axonal projections in the embryonic forebrain and develop supernumerary uretic buds that maintain improper connections to the nephric duct. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MG227608