

## Product datasheet for **MC222091**

### Slitrk2 (NM\_198863) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slitrk2 (NM_198863) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slitrk2
Synonyms:	A930040J07
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222091 representing NM\_198863  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGAGCGCGCTTTGGTTCTCAGTGTGTTAACAGTGGCCGGGATCTTACAGACCAGAGTGCAGAAA  
 CTGCCAAAGACATTTGCAAGATCCGCTGCTTGTGCGAAGAGAAGGAAAACGTAATATTAACCTGTGA  
 AAACAAAGGATTTACAACGTGTCAGTTTGTCAACCCCCCAGTATCGCATCTATCAGCTGTTTCTCAAC  
 GAAACCTCTTGACCAGACTGTATCCAATGAGTTGTCAATTATTCAAATGCGGTGACTCTTCATCTAG  
 GTAACAATGGGCTGCAGGAGATCCGACCTGGGGCATTAGTGGTCTGAAAACCTCTCAAAGACTGCACCT  
 CAATAACAACAACTGGAGGATTGCGAGAGGACACTTTTCTAGGCCTAGAGAGTCTGGAGTACCTCAA  
 GCTGACTACAATTACATCAGCACCATCGAGGCAGGGCATTAGCAAACTGAATAAGCTGAAAGTACTCA  
 TCCTGAATGACAACCTTTTGTGCTTTTGCAGTAATGTGTTTCGGTTTGTCTGCTGACTCACTTAGA  
 CCTGAGGGGAAACAGGTTGAAAGTAATGCCTTTTGTGCTGCTTGAACATATTGGAGGAATCATGGAA  
 ATTCAGCTGGAAGAAAACCCGTGGAATTGCACCTGTGACTTACTTCTCAAGGCATGGCTGGACACCA  
 TTAAGTGTGTTTGTGGGGGAGATTGTCTGTGAAACCCCTTTCAGGTTACATGGGAAAGATGTGACCCAGT  
 GACCAGACAAGACCTCTGTCCCAGAAAAGTGAAGTGGTATTCTAGTCAGAGGAGCAGCCATTGAGAC  
 ACACATGTTCAAAGGCTGACCCCTACAACAAATCCTGCTCTCAACCAACAGAGCTCCAAAAGCCAGCC  
 GGCCACCCAAAATGAGAAATCGTCCGACTCCTCGAGTACTGTGTCAAAGACCAGGAGCTTTGGCC  
 GATCATGGTGTACCAGACCAAGTCCCGTGGCCCTCACCTGTCCAGCAGCTGTGTCTGACTTCTCAG  
 AGCTCAGACAATGGTCTAAATGTGAATTGCAAGAAAGGAAGTCACTAACATCTCTGACCTACAGCCCA  
 AACCTACCAGTCAAAGAAACTACCTAACAGGGAATCTCAACACAGTCTATAAGAAATGACCTCTT  
 AGAATACAGTTCACTGGATTTGTGCTTTAGGAAACAACAGGATTGCAGTCATTAGGAAGGTGCCTTT  
 ACAACCTGACCAGTTTACGAAGACTTTATCTGAATGGCAATTACCTGAAAGTGTGTATCCTTCTATGT  
 TTGATGGACTGCAGAGCTTGCAGTATCTCTATTTAGAGTATAATGTCATTAAGGAAATTAAGCCTGTGAC  
 CTTTGTGCTTTGATTAACCTCCAGCTCCTGTTTCTGAATAACAACCTGTGAGGTCCTTACCTGATAAT  
 ATATTTGGGGGCACAGCCCTCACCAGGCTGAATCTGAGAAACAATCATTTTTCTCACCTGCCTGTGAAAG  
 GGGTCTGGACCAGCTTCTGCTTTTATCCAGATAGATCTGCAAGAGAACCCATGGGACTGCACCTGTGA  
 CATCATGGGCTAAAGGACTGGACCGAACATGCCAATTCTCCTGTATCATCAATGAGGTGACTTGTGAG  
 TCTCCCGTAAGCATGCAGGGGAGATACTGAAATTCCTGGGAAGGGAGGCTATTTGTCCAGAAAATCCTA  
 ACCTGTACAGATGGGACTATTTGTCAATGAATCACAACACAGACACACCTAGATCACTTAGTGTGTCTCC  
 TAGTCTTACCCGAACTACACACTGAAGTTCCTCTCCGTTTTAATTTAGGATTGCTTGTGGTTTTT  
 ATCCTGTCTGTCTGTTTTGGGGCGGGTGTTCGCTTTTGTCTGAAGCGTCGAAAGGGAGTGCCAAATG  
 TTCCCAGGAATGCCACCAACTTAGATGTAAGTTCCTCCAGTTACAATATGGGTCTTACAACACCCGAGAC  
 TAATGATAAAGCTGATGGCCACGTCTATAACTACATTCCTCCACCTGTGGGTGAGATGTGCCAAAACCC  
 ATCTACATGCAGAAGGAAGGAGACCCAGTGGCCTATTACCGAAATCTGCAGGACTTCAGCTATGGCAACC  
 TGGAGGAAAAAAGAAGAACCTGCCACACTTGCTTACACAATAAGTGCCACTGAGTTGCTAGAAAAACA  
 GGCCACACCAAGAGAGCCTGAGCTGCTGTATCAGAATATTGCTGAGCGAGTTAAGAAGCTCCAGTGCA  
 GGCTAGTCCACTATAACTTTTGTACCTTACCTAAAAGGCAAGTTGCCCTTCATATGAATCTCGACGCC  
 AAAACCAAGACAGAATCAATAAAACCGTTTTATATGGGACTCCCAGAAAATGCTTTTGTGGGGCAGTCAAA  
 GCCAGACCACCTTTACTGCAAGCTAAACCGCAATCGGAACCAGACTACCTCGAAGTTCTGGAAAAACAA  
 ACTGCAATCAGTCAGCT**GTA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_198863  
**Insert Size:** 2541 bp

**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](#)

**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\\_198863.2](#), [NP\\_942563.2](#)

**RefSeq Size:** 7754 bp

**RefSeq ORF:** 2541 bp

**Locus ID:** 245450

**UniProt ID:** [Q810C0](#)

**Cytogenetics:** X A7.1

**Gene Summary:** It is involved in synaptogenesis (PubMed:25989451). Promotes excitatory synapse differentiation (By similarity). Suppresses neurite outgrowth (PubMed:14550773). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.