

Product datasheet for MC224640

Slit2 (NM_178804) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slit2 (NM_178804) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slit2
Synonyms:	b2b1200.1Clo; Drad; Drad-1; E030015M03Rik; E130320P19Rik; mKIAA4141; S; Slil3; slit-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224640 representing NM_178804 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGTGGCATTGGCTGGCAGACACTGTCCTATCGTGGGGTTAGTGTTGTCGATCTTGAACAAGGTGG
CGCCGAGGCGTGCCCGCCAGTGCTCCTGTTGAGGCAGCACGGTGGACTGTCATGGGCTGGCACTGCC
CAGTGTGCCAGGAATATCCCCGCAACACCGAGAGACTGGATTTGAATGGAAATAACATCACGAGGATC
ACGAAGATAGATTTTGTGGTCTCAGGCACCTCAGAGTTCTTCAGCTCATGGAGAACAGAATCAGCACCA
TCGAGAGGGGAGCATTCCAGGATCTTAAGGAGCTGGAAAGACTGCGTTTAAACAGAAATAACCTTCAGTT
GTTTCTGAGCTGCTGTTTCTCGGGACTGCGAAGCTCTACCGGCTTGATCTCAGTGAAAAACAAATTCAA
GCAATTCGAAGGAAGGCTTCCGTGGGGCAGTTGACATTAACAACTGCAACTGGATTACAACAGATCA
GCTGCATTGAAGATGGGGCGTTCAGAGCTCTACGAGATCTGGAAGTGCTCACTCTGAACAATAACAATAT
TACTAGACTTTCAGTGGCAAGTTTCAACCATATGCCTAACTTAGGACATTTGACTCCACTCGAACAAC
TTGTACTGCGACTGCCACCTAGCCTGGCTCTCAGACTGGCTTCGCAAGGCCACGGGTGGGCTTGTACA
CTCAGTGTATGGGCCATCCCACCTGAGGGGCCACAATGTAGCAGAGTTCAAAAACGAGAGTTTGTCTG
CAGTGGTACCAGTCATTCATGGCTCCCTCCTGCAGTGTGCTGCCTGCCCCGCTGCTTGTACCTGTAGC
AAACAATTGTAGACTGCCGAGGAAAGTCTCACTGAGATCCCCACAAATCTGCCTGAGACCATCACAG
AAATACGTTTGAACAGAACTCCATCAGGGTCATCCCTCCAGGAGCCTTCTCACCATACAAAAAGCTTAG
ACGACTAGACCTGAGCAACAACAGATCTCTGAACCTGCACCAGATGCCTTCCAAGGACTGCGCTCTCTG
AATTCACTTGTCTGTATGAAAATAAATCACAGAACTCCAAAAAGTTTATTGGAAGGACTATTTTCT
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CTTGAACCTTCTCTCTTATATGACAATAAGCTTCAGACGGTTGCCAAGGGCACCTTCTCAGCCCTCAGA
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AATTGGACAGATCAAAAGCAAGAAATCCGTTGTTTCAGGTACAGAAGATTATCGATCAAAATTAAGTGG
GACTGCTTTCAGACTTGGCTTGTCTGAGAAGTGTGCTGTGAAGGGACCACAGTAGACTGCTCCAATC



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AAAGACTCAACAAAATCCCTGACCATATCCCCAGTACACAGCAGAGCTGCGTCTCAATAATAATGAATT
CACAGTGTAGAAAGCCACGGGAATATTTAAGAACTTCCTCAGTTACGTAATAAATCACTTTAGCAACAAT
AAGATCACGGATATCGAGGAGGGTGCAATTTGAAGGCGCGTCTGGTGTGAATGAAATCTTCTCACCAGTA
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GATTGCCAGAATGGAGCCAGTGTATCATCAGGATAAATGAACCAATATGCCAGTGTTCCTGGCTACC
TGGGAGAGAAGTGTGAGAAAATGGTCAAGTGTGAAATTTTGTAAACAAGAGTCTATCTTCAGATTCTTC
AGCCAAGTTCGGCTCAGACAAACATCACACTCAGATTGCCACAGATGAAGACAGCGGCATCCTCTTG
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GCTCTCATCCGGCTTCTGCCATTTACAGTGTGGAGACAATCAATGATGGAAGTCCACATTGTGGAGCT
ACTGACCTGGATTCCAGTCTTCCCTCTCTGTGGATGGAGGAAGCCCTAAAGTCATACCAATTTGTCA
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AAAGTATGTGCCATGGCATGTGCCAGCCAGCAGCAATCAGGCTTACCTGTGAATGTGAGGAAGGGT
GGATGGGGCCCTCTGTGACCAGAGAACCAATGATCCCTGCCTCGGAAACAAATGTGTGCATGGGACCTG
CCTGCCATCAATGCCTTCTCTATAGTTGCAAGTGCCTGGAGGGCCATGGCGGTGCTCTGTGATGAA
GAAGAAGATCTCTTAAACCCCTGCCAGATGATCAAGTCAAGCATGGGAAGTGCAGGCTTTCTGGAGTGG
GCCAGCCCTATTGTGAATGCAACAGTGGATTACCGGGGACAGCTGTGATAGAGAAAATTTCTGTGAGG
GGAACGGATAAGGGACTATTACCAGAAGCAGCAGGGTTACGCTGCCTGTCAAACAATAAGAAAATATCT
CGCTTGAATGCAGAGCGGGTGCCTGGAGGCCAGTGTGTGGACCTCTGAGAAGCAAGAGGCGGAAAT
ACTCTTTCGAATGCACAGATGGCTCCTCATTTGTGGACGAGGTTGAGAAAAGTGGTGAAGTGGGCTGCGC
GAGATGTGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_178804
Insert Size: 4566 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 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_178804.5](#), [NP_848919.3](#)

RefSeq Size: 9958 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]

Transcript Variant: This variant (3) lacks three alternate in-frame exons compared to variant 1. The encoded isoform (c) is shorter than isoform a. 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.