

Product datasheet for MC224651

Slit1 (NM_015748) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slit1 (NM_015748) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slit1
Synonyms:	mKIAA0813; Slil1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224651 representing NM_015748 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTAACGCCCCAGCGGGTCTCTTCGGGGTTGAGCCGACCGGAGCTGTGGCTGCTGTGGG
CAGCCGCTGGCGCTGGGGCCACGGCGTGCCCCGCCCTGTCACCTGCACCGGCACTACGGTGGACTG
CCACGGCACGGGTTTGCAGGCCATCCCCAAGAATCCCAAGAACATCCCAAGAACACCGAGCGCTGGA
AACACATCACTCGGATCCACAAGAATGACTTTGCTGGCCTCAAGCAGCTTCGAGTGTGCAGCTGATGG
AGAACCAGATCGGAGCTGTGGAACGCGGAGCTTTTGTATGACATGAAGGAGCTAGAGCGCCTACGGT
CCGCAACCAGCTACAAGTGTTCCTGAACACTACTGTTCCAGAACAACCAGGCTCTATCCAGACTGGACCTG
AGTGAGAAATTTCTCCAGGCTGTGCCAGGAAGGCTTTTCGGGGAGCCACAGACCTCAAAAATCTACAGC
TGGACAAGAACCAGGATCAGCTGCATCGAGGAAGGGGCTTCCGTGCCCTACGGGGACTGGAGTTCTGAC
CCTGAACAACAACAACATCACCACCATCCCTGTGTCCAGTTTCAACCATATGCCAAAGCTTCGGACCTTC
CGGCTGCACTCCAACCACCTGTTCTGTGACTGCCACCTGGCCTGGCTCTCTCAGTGGCTGAGACAGAGGC
CCACCATCGGACTCTTCACCCAGTGCTCTGGGGCCGCCAGCCTTCGGGGCCTCAACGTGGCAGAGTGCA
AAAGGGCGAGTTAGCTGCTCAGGCCAGGGGAGGCTGCGGGAGCAGCTGCCTGCACCCCTCTCGTCCGGT
TCTGCCAGCCATGTGAGCTGTAGCAGCGGCATCGTGGACTGCCGTGGCAAGGGCCTCACTGCCATCC
CTGCTAACCTTCCAGAGACCATGACAGAGATCCGCCTGGAGTTGAACGGTATCAAATCCATCCCACCCGG
AGCCTTCTCTCCCTACAGAAAGCTGCGCAGGATAGACCTGAGCAACAACCAGATTGCAGAGATTGCACCC
GACGCTTCCAAGGCTGCGCTCCTTGAATTCCTGGTCTCTATGGCAACAAGATTACAGACCTGCCCC
GAGGTGTATTTGGAGGCTGTACACACTCCAGCTGCTGCTTCTAAATGCCAACAAGATCAACTGCATCCG
GCCTGATGCCTTCCAGGACCTGCAGAACCTCTCTGCTCTCCCTGTATGACAACAAGATCCAGAGTCTC
GCCAAGGGCACCTTCACCTCCCTACGGGCCATCCAGACTGCATCTGGCCAGAATCCTTTCATCTGTG
ACTGTAACCTCAAGTGGCTGGCAGACTTCTTACGTACCAACCCATCGAGACAACCTGGGGCCCGATGTGC
CAGCCCCCGCGCCTCGCCAACAAGCGTATTGGCAGATCAAAGCAAGAAGTTTCGGTGCTCAGCCAAA
GAGCAGTACTTCCAGGGACAGAGGACTACCACCTGAACAGCGAGTGTACCAGCGACGTGGCCTGCC



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CACACAAGTGCCGTTGTGAGGCCAGTGTGGTGGAGTGCTCCAGCCTGAAACTCTCTAAGATCCCTGAGCG
 AATCCCCCAGTCCACGACTGAGCTACGACTGAACAACAATGAGATTTCTATCCTAGAGGCCACTGGGTTG
 TTTAAGAAGCTCTCACATCTGAAGAAAATAAACCTGAGCAATAACAAGGTGTCCGAGATCGAAGACGGGA
 CGTTTGAGGGTGCCGCCTCTGTCACTGAGCTGCACCTGACTGCTAACCAGCTGGAGTCCATTAGAAGTGG
 CATGTTCCGGGTCTAGATGGCTTGGGACCCTGATGCTGAGGAACAACCGTATCAGCTGTATCCACAAC
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 CAGCAACAAGCACCTCCAGGCTCTGCCAAGGGCATCCCCAAGAATGTCACAGAACTCTATTTGGATGGG
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 ACAAGATCAGTTCCTTGAGCAATTTCTCTTACCAACATGAGCCAGCTGACCACGCTGATCCTCAGCTA
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 ACCTGGCATTGCCGCTGTGCTGGACCCCCAGAGATGGAGGGCAAAGTACTACCACACCTGCCAAG
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 GCCAGAACCAGGGCACCTGCCACAATGACCCTCTTGAGGTATACAGGTGTACCTGCCCAGTGGCTACAA
 GGGCCGACACTGTGAGGTGTCTCTGGACGGCTGTTCCAGCAACCCATGTGAAATGGGGGACCTGCCAT
 GCCCAGGAGGGCAGGATGCTGGCTTCACTGCTCCTGTCCCTCCGGCTTGAAGGGCCGACCTGTGGAG
 TGGACACAGATGACTGTGTTAAGCATGCCTGTGTCACGGGGGTGTCTGTGTAGATGGCCTGCCGAATTA
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 GTTACACGGGTGACAACCTGCAGCGAAAATCAGGATGACTGCAAGGACCACAAGTGTGAGAACGGGGCCA
 GTGTGTGGATGAAGTCAACAGCTACGCCTGCCTGTGTGTTGAGGGCTACAGTGGACAGCTCTGTGAGATC
 CCACCTGCCCCCAGGAGCTCCTGTGAGGGGACGGAGTGCAGAAATGGAGCCAACCTGCGTAGACCAGGGAA
 GCCGGCCCGTATGCCAGTGCCTACCAGGCTTGGTGGCCCTGAATGTGAGAAATTGCTCAGTGTCAACTT
 TGTGGACCGGGACACTTATCTGCAGTTCAGTGCCTGCAGAACTGGCCTCGGGCCAACATCACTCTTCAG
 GTCTCCACAGCAGAGGACAATGGGATTCTCTATATAATGGGACAATGACCACATTGCAGTTGAGCTGT
 ACCAGGGCCATGTCGGTGTAGTTATGACCCAGGCAGCTACCCAGCTCTGCTATCTACAGCGCTGAGAC
 GATCAACGATGGGCAATTCCACACCGTTGAGCTGGTACCTTCGACCAGATGGTGAACCTCTCCATCGAT
 GCGCGCAGCCCCATGACCATGGACAACCTTGGCAAGCACTACACCCTCAACAGCGAGGCCCCCTCTATG
 TGGGAGGGATGCCTGTGGACGTGAACCTCAGCTGCCTTCCGCTGTGGCAGATCCTCAATGGTACCAGCTT
 CCACGGTTGCATCCGGAACCTGTACATCAACAATGAATGCAGGACTTCACCAAGACACAGATGAAGCCA
 GGCGTGGTGCCAGGCTGTGAGCCGTGCCGCAACTCTACTGTCTACATGGCATTGCCCAGCCCAACGCCA
 CCCCAGGGCCTGTGTGCCACTGTGAGGCTGGCTGGGGGGCCTGCACTGTGACCAGCCAGTGGATGGCC
 CTGCCATGGCCACAAGTGTCCATGGGAAATGCGTGGCCTCGACGCTCTTGCCTACAGCTGCCAGTGC
 CAGGATGGGTACTCGGGGGCTCTGTGCAACCAGGTGCGGGCTGTGGCAGAGCCCTGTGGGGCTTGCAT
 GCCTGCATGGTCACTGCCAGCCCTCTGCCACCAAGGGGCACACTGTGTGTGACAGCCAGGCTTTTCAGG
 CGAGCTGTGTGAGCAAGAGTCCGAGTGCAGGGGGACCCGTCCGGGACTTTACCCGGTCCAGAGGGGC
 TATGCCATCTGCCAGACCACAGCCCGCTGTGCTGGTGGAAATGCCGGGGCGCTGCCGGGCCAGGGCT
 GCTGCCAGGGCCTGCGGCTGAAGCGGAGGAAGCTCACCTTCGAGTGCAGCGATGGGACTTCGTTTGTGTA
 GGAGGTGGAGAAGCCACCAAGTGTGGCTGTGCCAGTGCCTA

ACGGCTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_015748
 Insert Size: 4596 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_015748.3](#), [NP_056563.2](#)

RefSeq Size: 5300 bp

RefSeq ORF: 4596 bp

Locus ID: 20562

UniProt ID: [Q80TR4](#)

Cytogenetics: 19 C3

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]