

Product datasheet for **MG212022**

Slit1 (NM_015748) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slit1 (NM_015748) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slit1
Synonyms:	mKIAA0813; Slil1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG212022 representing NM_015748 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTAACGCCCCAGCGCGGGTCTCTTCGGGGTTGAGCCGACCGGAGCTGTGGCTGCTGTGGG
CAGCCCGTGGCGCTGGGGCCACGGCGTGCCCCGCCCTCTGCACCTGCACCGGCACTACGGTGGACTG
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CCGCAACCAGCTACAAGTGTTCCTGAACACTACTGTTCCAGAACAACCAGGCTCTATCCAGACTGGACCTG
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GAGCAGTACTTCATTCCAGGGACAGAGGACTACCACCTGAACAGCGAGTGTACCAGCGACGTGGCCTGCC
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GCTGCCAGGGCTGCGGCTGAAGCGGAGGAAGCTCACCTCGAGTGCAGCGATGGGACTTCGTTTGTGTA
GGAGGTGGAGAAGCCCAAGTGTGGCTGTGCCAGTGGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG212022 representing NM_015748
 Red=Cloning site Green=Tags(s)

MALTPQRGSSSGLSRPELWLLLWAAWRLGATACPALCTCTGTTVDCHGTGLQAIKPNIPNTERLELNG
 NNITRIHKNDFAGLKQLRVLQLMENQIGAVERGAFDDMKELERLRLNRNQLQVPELLFQNNQALSRDL
 SENFLQAVPRKAFRGATDLKNLQLDKNRI SCIEEAGFRALRGLEVLTLNNNNITTIPVSSFNHMPKLRTF
 RLHSHNHLFCDCHLAWLSQWLRQRPTIGLFTQCSGPASLRGLNVAEVQKGEFSCSGQGEAAGAPACTLSSG
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 AKGFTTSLRAIQTLHLAQNPFCDCNLKWLADFLRTNPIETTGARCAPRRLANKRIGQIKSKKFRCSAK
 EQYFIPGTEDYHLNSECTSDVACPHKCRCEASVVESSLKLSKIPERIPQSTTELRLNNEISILEATGL
 FKKLSHLKKNL SNNKVSEIEDGTFEGAASVSELHLTANQLESIRSGMFRGLDGLRTLMLRNNRISCIHN
 DSFTGLRNVRLSLYDNHITTI SPGAFDTLQALSTLNLLANPFNCNCHLSWLDWLRKRKIVTGNPRCQN
 PDFLRQIPLQDVAFPDFRCEEGQEEVGLPRPQCPOECACLDTVVRC SNKHLQALPKGIPKNVTELYLDG
 NQFTLVPQQLSTFKYLQVLDL SNNKISSLSNSSFTNMSQLTTLILSYNALQCIPPLAFQGLRSLRLLSLH
 GNDVSTLQEGIFADVTSLSHLAIGANPLYCDCRLRWLSSWVKTYKEPGIARCAGPPEMEGKLLTTPAK
 KFECQGGPSLAVQAKCDPCLSSPCQNQGTCHNDPLEVYRCTCPSGYKGRHCEVSLDGCSSNPCGGGTCH
 AQEGEDAGFTCSCPSGFEGPTCGVDTDDCVKHACVNGGVCVDG VGNVTCQCPLQYTGRACEQLVDFCSPD
 MNPCQHEAQC VGTDPGPRCECMLGYTGDNCSENQDDCKDHKQNGAQCVDEVNSYACLCEVGSQQLCEI
 PPAPRSSCEGTECQNGANCVDQGSRPVCQCLPGFGGPECEKLLSVNFVDRDYLQFTDLQNWPRANITLQ
 VSTAEDNGILLYNGDNHIAVELYQGHVRSYDPGSSYSSAIYSAETINDGQFHTVELVTFDQMVNLSID
 GGSPMTMDNFGKHHTLNSEAPLYVGGMPVDVNSAAFRLWQILNGTSFHGCIRNLYINNELQDFTKTQMKP
 GVVPGEPCPKLYCLHGICQPNATPGPVCHCEAGWGLHCDQVPDGPCHGHKCVHGKCVPLDALAYSCQC
 QDGYSGALCNQVGAVAEPCGGQLCLHGHQASATKGAHCVCSPGFSGLCEQESECRGDPVRFHRVQRG
 YAICQTTTRPLSWVECRGACPGQGCCQGLRKRRLTFECSDGTSFAEEVEKPTKCGCAQCA

TRTRPLE - GFP Tag - V

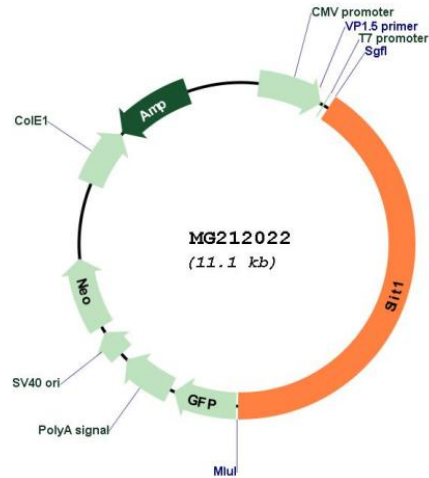
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_015748

ORF Size: 4593 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](#)

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:	<ol style="list-style-type: none">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:	<u>NM_015748.3</u> , <u>NP_056563.2</u>
RefSeq Size:	5300 bp
RefSeq ORF:	4596 bp
Locus ID:	20562
UniProt ID:	<u>Q80TR4</u>
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]