

Product datasheet for RR201491

Slit3 (NM_031321) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slit3 (NM_031321) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slit3
Synonyms:	Megf5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR201491 representing NM_031321 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCCGGGGACCGGGCCGGCCGGCTGTGCGCGCCCGCTGGCGCTGGCCTTGGCGCTGGCGA
GCATCCTGAGCGGACCCCGCTGCTGCCTGCCACCAAGTGTACCTGCTCCGCCGCTAGCGTGGACTG
CCACGGGCTGGGCTGCGCGCCGTTCCCGGGGCATCCCCGCAACGCTGAGCGCCTTGACCTGGACAGA
AATAACATCACCAGGATCACAAAATGGACTTCACCGGCTTGAAGAATCTCCGAGCTTGCATCTGGAAG
ACAATCAGGTCAGCGTCATCGAGAGAGGCGCCTCCAGGATCTGAAGCAGCTGGAGCGATTACGTCTGAA
CAAGAACAAGCTCCAGGTCCTTCCAGAATTACTTTCCAGAGCACACCGAAGCTCACCAGACTAGATCTG
AGCGAAAACAGATCCAGGGCATCCCGAGGAAGGCGTTCAGGGGCGTCACGGGCGTGAAGAACCTGCAAC
TGGACAATAACCACATCAGCTGCATTGAAGATGGAGCCTCCGAGCGCTGCGCGATTTGGAGATCCTCAC
CCTTAACAACAACAACATCAGCCGATCCTGGTCACCAGCTTCAACCACATGCCGAAGATCCGGACCCTG
CGTCTCCACTCCAACCACCTGTACTGTGATTGTCACTTGGCCTGGCTCTCAGACTGGCTGCGACAGCGGC
GGACCATTGGCCAGTTCACCCTCTGCATGGCGCCCGTGCACCTGAGAGGCTTCAAGTATGACAGAGTGA
GAAGAAGGAGTATGTGTGCCAGTCCCACTCAGAGGCTCCAGCCTGCAATGCCAACTCCCTCTCCTGC
CCTTCTGCCTGCTCATGCAGTAATAACATTGTAGACTGCCGTGGGAAGGGACTGACTGAGATCCCTGCCA
ACCTGCCGGAGGGCATCGTGAAATACGCCTAGAACAGAACTCCATCAAATCCATTCTGCAGGAGCTTT
CATCCAGTACAAAAAAGTGAAGCGAATAGACATCAGCAAGAATCAGATATCGGACATTGCTCCAGATGCC
TTCCAGGGCTGAAATCACTCACGTCGCTGGTCTCTATGGGAACAAGATCACAGAGATCCCAAAGGAC
TGTTTGACGGGCTGGTGTCCCTGCAGCTGCTCCTCCTCAATGCCAACAAGATCAACTGCCTGCGGGTAA
CACCTTCCAGGACCTACAGAACCTCAATCTGCTCTCTGTATGACAACAAGTTGCAGACTATCAGCAA
GGGCTCTTTGCTCCGCTGCAGTCCATCCAGACCCTCCACTTAGCTCAAAACCCGTTTGTTCGACTGCC
ACTTGAAGTGGTTGGCCGACTACCTCCAGGACAACCCATTGAGACGAGCGGGGCCCGCTGCAGAGCCC
ACGCCGGCTGGCCAACAAGCGCATCAGCCAGATCAAAGCAAGAAGTTCCGCTGCTCAGGCTCGGAGGAT
TATCGAACAGATTACGAGCGAGTGTTCATGGACCTAGTGTGCCCCGAGAAGTGCCGTTGTGAGGGCA



[View online »](#)

CCATTGTGGACTGCTCCAACCAGAAGCTCTCCCGCATCCCGAGCCACCTCCCTGAATATACCACTGACCT
GCGACTGAACGACAATGACATCGCTGTGCTGGAGGCCACTGGGATCTTCAAGAAGTTGCCAACCTGAGG
AAAATAAACTTGAGCAATAATAGGATCAAGGAGGTGCGGGAGGGTGCGTTTGATGGAGCGGCAGGCGTGC
AGGAACTGATGCTGACGGGAACCACTGGAGACCATGCACGGACGCATGTTCCGGGGCCTCAGCGGCT
GAAGACTGATGTTAAGGAGCAACCTGATCAGCTGCGTAAACAATGACACCTTCGCTGGCCTAAGCTCT
GTGAGACTGCTGCCCTCTATGACAATCGGATCACCACCATCAGCCCTGGAGCCTTACCACGCTCGTCT
CCCTGTCCACCATAAACCTCTTGTCTAACCCCTTCAACTGCAACTGTCACATGGCCTGGCTCGGCCGGTG
GCTGAGGAAACGCCGCATCGTAAGCGGGAACCCAGATGTCAGAAGCCCTTTTTCTCAAGGAGATTCT
ATCCAAGATGTGGCCATCCAGGACTTCACTGTGAAGGAATGAAGAGAACAGCTGTCAGCTGAGTCCAC
GCTGCCCGAGCAGTGTACCTGTGTGGAGACAGTGGTGCATGCAGCAACAGGGGTCTCCACACCCTCCC
CAAGGGCATGCCAAAGGACGTGACTGAACTGTACCTGGAAGGAAATCATTTAACGGCGGTGCCAAAGAA
TTGTCCACCTTCCGACAGCTGACACTAATTGACCTGAGCAACAACAGCATCAGTATGCTGACCAATCACA
CCTTCAGAACATGTCCACCTTCCACACTGATCCTGAGCTACAACGGCTGAGATGCATCCCGGTCCA
TGCTTCAACGGGCTAAGGCTCCTCCGAGTGTAAACCCTCCATGGCAATGACATTTCCAGTGTCTCTGAA
GGCTCCTTCAATGATCTGACGCTCCTCTCCACCTGGCCTGGGAATCAACCCTTCCACTGTGACTGCA
GTCTGCGTTGGTTATCAGAGTGGATAAAGGCTGGGTACAAGGAGCCTGGCATTGCCAGATGACAGTCC
CGAGTCCATGGCAGACAGACTCCTGCTCACCACCCCAACCACAGGTTCCAGTGCAAAGGGCCAGTGGAC
ATTAACATCGTGGCAAGTGAACGCCTGCCTCTTAGCCATGCAAGAACAACGGCACTTGACAGCCAGG
ATCCGGTGGAGCAGTACCGCTGTACCTGCCCTTACAGCTACAAGGGCAAGGACTGCACCGTGGCCATCAA
CACCTGCGTCCAGAACCCCTGTGACGACGGAGGCCACTGTACCTCAGTGAAGCCACAGAGATGGGTTC
AGCTGCTCCTGCCCTGGGCTTTGAGGGACAGCGGTGTGAGTCAACCCAGATGACTGTGAGGATAACG
ACTGTGAAAACAGCGCCACCTGTGTGGACGGGATCAACAACATCGCATGCGTGTGCCCGCGAAGTACAC
AGGGGAGCTGTGTGATGAGGTGATTGACTACTGCGTGGCCGAGATGAACCTCTGTGACAGCAGGAGCA
TGATCTCCCTGGACAAAGGATTACAGTGCGAATGTGTCCTGGCTACAGTGGAAAGCTGTGCGAGACAG
ACAACGATGACTGTGTGGCTCACAGTGTGCGCACGGAGCCAGTGTGTGGACGCGGTCAATGGCTACAC
GTGCATCTGCCCCAGGGCTTACGCGGGCTCTTCTGTGAGCACCCCAACCATGGTTCTGCTACAGACC
AGCCCCTGTGACCAGTACGAGTGCAGAAATGGGGCGCAGTGCATCGTGGTACAGCAGGAGCCACTTGCC
GCTGTCCCCAGGCTTCGCTGGGCCAGGTGTGAGAAGCTCATCACTGTGAATTTCTGTTGGCAAGGACTC
CTATGTGGAACCTGGCCTCTGCCAAGTCCGGCCCCAGGCCAACATCTCCCTGCAGGTGGCCACTGACAAG
GACAACGGCATCCTTCTTACAAGGGAGACAACGACCCCTGGCACTGGAGCTGTACCAGGGTACGTGA
GGCTGGTGTATGACAGCCTGAGTCCCCTCCGACCACGGTGTACAGTGTGGAGACGGTGAATGATGGCCA
GTTTACAGTGTGGAGCTGGTGTGCTAAACCAGACCCTGAACCTGGTGGTAGACAAGGAGCCCCAAG
AGCCTGGGGAAGCTCCAGAAGCAGCCAGCAGTGGGCATCAACAGTCCCCTCTATCTTGGAGGCATCCCCA
CGTCTACAGGCCTCTCAGCCTTACGCCAGGGTGCAGACAGGCCGCTGGGCGGCTTCCACGGCTGTATACA
CGAAGTGCATCAACAACGAGTTGAGGATTTCAAAGCCCTCCACCCAGTCCCTGGGGGTCTCTCC
GGCTGCAAATCCTGCACTGTGTGTCGTACGGCCTGTGTGTTCCGTGGAGAAGGACAGCGTGTGTGTG
AGTGCCATCCGGGATGGACTGGTCCACTGTGTGATCAGGAAGCCAGGACCCCTGCCTGGTACAGCTG
CAGCCATGGGACATGCGTGGCGACTGGCAACTCATATGTGTGCAAGTGTGCCGAGGGCTATGAGGGACCT
TTGTGTGACCAGAAGAATGACTTGCCAAATGCCTGCTCAGCCTTCAAGTGCACACCAGGCGAGTGCAC
TCTCAGATCGAGGGGAGCCCTATTGCCTGTGCCAGCCTGGCTTCAAGTGGCAATCACTGTGAGCAAGAGAA
TCCATGTTTGGGAGAGATAGTCCGTGAAGCCATCCGCCGCGCAGAAAGATTATGCCTCCTGTGCCACAGCA
TCCAAGGTGCCATCATGGTATGCCGCGGGGGCTGCGGGAGCCAATGCTGCCAGCCGATTGAGGCAAGC
GGCGGAAATACGTCTTCCAGTGCATGACGGCTCCTCGTTGTTGGAAGGTTGGAGAGACTTGGAAATG
TGGCTGCTGTGAGTGTCC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201491 representing NM_031321
 Red=Cloning site Green=Tags(s)

MAPGRTGAGAAVRARLALALASILSGPPAAACPTKCTCSAASVDCHLGLRAVPRGIPRNERLDLDR
 NNITRITKMDFTGLKNLRVHLLEDNQVSVIERGAFQDLKQLERLRNKNKLQVLPPELLFQSTPKLTRLDL
 SENQIQGIPRKAFRGVTGVKNLQLDNNHISCIEDGAFRALRDLEILTLNNNNISRLVTSFNHMPKIRTL
 RLHSHNLYCDCHLAWLSDWLRQRRTIGQFTLCMAPVHLRGFSVADVQKKEYVCPGPHSEAPACNANSLSC
 PSACSCSNNIVDCRGKGLTEIPANLPEGIVEIRLEQNSIKSIPAGAFIQYKLLKRIDISKNIQSDIAPDA
 FQGLKSLTSLVLYGNKITEIPKGLFDGLVSLQLLLLNNANKINCLRVNTFQDLQNLNLLSLYDNKLQTIK
 GLFAPLQSIQTLHLAQNPVCDCHLKWADYLQDNPIETSGARCSSPRLANKRISQIKSKKFRCSGSED
 YRNRFSSECFMDLVCPEKCRCEGTIVDCSNQKLSRIPSHLPEYTTDLRLNDNDIAVLEATGIFKKLPNLR
 KINLNNRIKEVREGAFDGAAGVQELMLTGNQLETMHGRMFRGLSGLKTLMLRSNLISCVNNDTFAGLSS
 VRLLSLYDNRITTI SPGAF T T L V S L S T I N L L S N P F N C N C H M A W L G R W L R K R R I V S G N P R C Q K P F F L K E I P
 IQDVAIQDFTCEGNEENSCQLSPRCPEQCTCVETVVRCNSRGLHTLPKGMKDVTELYLEGNHLTAVPKE
 LSTFRQLTLIDLNNISIMLTNHTFSNMSHLSTLILSYNRLRCIPVHAFNGLRSLRVLTLHGNDISSVPE
 GSFNDLTSLSHLALGINPLHCDCLRWLSEWIKAGYKEPGIARCSSPESMADRLLLTTPTHRFFQCKGPVD
 INIVAKNACLSSPKNNGTCSQDPVEQYRCTCPYSYKGDCTVPINTCVQNPCQHGGTCHLSESHRDGF
 SCSCPLGFEGQRCINPDDCEDNDCENSATCVDGINNYACVPPNYTGELCDEVIDYCVPEMNLCOHEAK
 CISLDKGRFCECVPGYSGKLCETDNDDCAHKCRHGAQCVDVAVNGYTCICPQGFSGLFCEHPPMVLLQT
 SPCDQYECQNGAQCIVVQEQPTCRCPGFAGPRCEKLTIVNFVGKDSYVELASAKVRPQANISLQVATDK
 DNGILLYKGDNDPLALELYQGHVRLVYDSLSSPPTTVYSVETVNDGQFHSVELVMLNQTLLNVVDKGAPK
 SLGKLQKQPAVGINSPLYLGGIPTSTGLSALRQGADRPLGGFHGCIHEVRINNELQDFKALPPQSLGVSP
 GCKSCTVCRHGLCRSVEKDSVVECEHPGWTGPLCDQEAQDPCLGHSCSHGTCVATGNSYVCKCAEGYEGP
 LCDQKNSANACSAFKCHHGQCHISDRGEPYCLCQPGFSGNHCEQENPCLGEIVREAIRRQKDYASCATA
 SKVPIMVCRGGCGSQCCQPIRSKRRKYVFQCTDGSSEFVEEVERHLECGCRECS

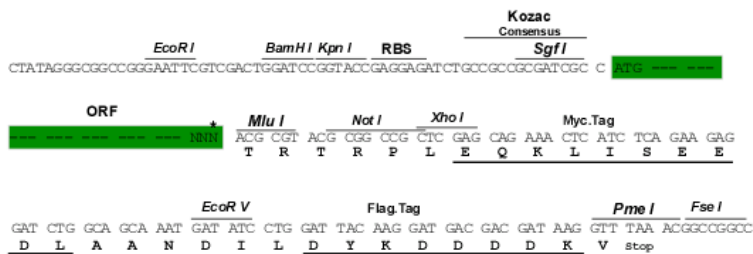
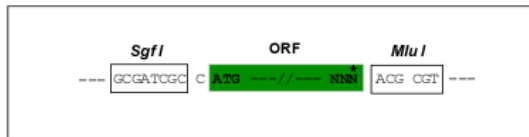
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

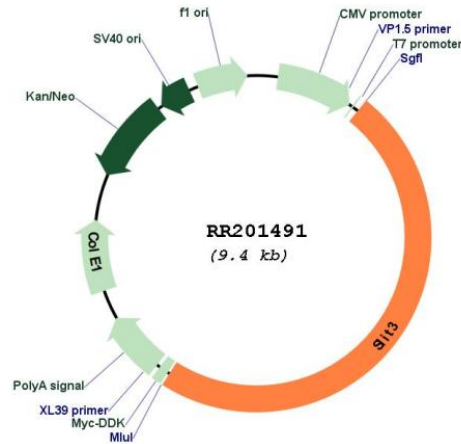
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



- ACCN:** NM_031321
- ORF Size:** 4569 bp
- OTI Disclaimer:** 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_031321.1](#), [NP_112611.1](#)

RefSeq Size: 5210 bp

RefSeq ORF: 4572 bp

Locus ID: 83467

UniProt ID: [O88280](#)

Cytogenetics: 10q12

MW: 167.8 kDa

Gene Summary: localized to mitochondria; has less conservation with Drosophila slit than family members slit1 and slit2; may play a role in neurogenesis [RGD, Feb 2006]