

Product datasheet for **MR220049**

Slitrk4 (NM_178740) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slitrk4 (NM_178740) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slitrk4
Synonyms:	6430513G13; D930039I09Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR220049 representing NM_178740
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTTCTTTGGCTCTTTCTGATTGTGTCAGCCCTGATTTCTTCTACAAATGCAGATTCTGACATATCAG
 TGGAAATTTGCAATGTGTTCCTGCGTGTGAGTGTGAGTGTGCTCTATGTCAACTGTGAGAAGGTTTC
 AGTCTACAGGCCAAACCAGCTGAAACCCTTGGTCTAATTTCTATCATCTCAATTTCCAAAAACAATTTT
 TAAATATCCTCTATCCAAATACATTCTGTAATTTTCTCATGCAGTATCTGTCATCTGGGAAATAATA
 AGCTGCAGAACATTGAGGGAGGAGCCTTTCTCGGGCTCAGTGCATTAAGCAGTTGCACTTGAACAACAA
 TGAATTAAGATTCTCCGAGCTGACACTTTCTTGGCATAGAGAAGTGGAGTATCTCCAGGCTGACTAC
 AATTTAATCAAGTATATTGAACGAGGAGCCTTCAATAAGTCCATAAACTGAAAGTTCTCATTCTTAATG
 ACAATCTGATTTTCCTTCTGATAATATTTTTCGATTTGCATCTTTAACCCATTTGGATATACGAGG
 AAACAGAAATCCAGAACTTCTTATATTGGAGTCTAGAACACATTGGCCGGGTTGTTGAGTTGCAGCTG
 GAAGATAATCCTTGGAACTGTAGCTGTGATTTGTGCCTCTAAAGGCTTGGCTGGAGAATATGCCATATA
 ACATTTACATAGGAGAAGCTATTTGTGAACTCCCACTGACTTATATGGAAGGCTTTTAAAGGAAACCAA
 CAAGCAAGAACTATGCCCATGGGTACAGGCAGTACTTTGACGTACGCATTCTGCCTCCATCTCAGCAG
 GAGAATGGCTTTACTACTCCCAATGGTCACTACTCAGACAACCTTGCACAGATTAGTGACAAAACCCAC
 CAAAAACAACAACTCTTCCAAATCTCTGGAATTGTGGCAGGCAAAAGCCCTATCCAACAGAAATCTCAG
 TCAGATTGTGTCATATCAACAAGAGTGCCTCCTTACACCTTGTCCAGTACCTTGCTTTTGCAAAACA
 CATCCTTCTGATTTGGGATTGAGTGTGAATTGCCAAGAGAAAAATACAGTCCATGTGAATTGACAC
 CAAAACCTTTGAATGCCAAGAAGTTGCATGTCAATGGTAATAACATCAAAGATGTGGACATTTAGACTT
 CACTGAGTTTGGGGCTGGATTTGCTCCATTTAGGCAGCAATCAGATTACGTTGATCAAAGGAGAAGTA
 TTCCACAATCTTACTAATCTGCGCAGGCTTTATCTCAATGGCAATCAGATTGAAAGGCTATACCCTGAAA
 TATTTTTCAGGACTTCATAACCTGCAGTATCTTTATTTGGAGTACAACCTGATTAAGGAAATTTAGCAGG
 CACCTTTGACTCCATGCCAAATTTGAGCTACTGTACTTGAACAATAATCTTTAAAAAGCCTGCCAGTT
 TACATCTTTTCTGGAGCACCCTTGCTAGACTGAACTGAGAAACAACAATTCATGTACCTACCTGTCA
 GCGGAGTACTTGCATCAGTTCAGTCTTACACAAATTGACTTAGAGGGCAACCTTGGGACTGCACCTG
 CGACTTGGTAGCATTAAAGTTGTGGCTGGAGAAGTTAAATGATGGGATTGTTGTGAAAGAAGTAAATGT
 GAGACTCCTGTTGAGTTTCCCAACATCGAATTGAAGTCCCTCAAAATGAAATCTTATGCCCTAACTCT
 TAAACAAGCCATCAGCAACATTCACAAGCCTGCGCCTGCAATTACCTTACCCTCCATTGGGTCCTAT
 TCGAAGTCTCCTGGGGGCCAGTGCCATTATCTATTTAATCTTAAGTATTCTGGTGGTTCTCATTTTA
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 AAGGTCTGGGAAATCTGAGTGTGGCTCCATGCAGCTGCAACTAAGGAAACATGACCACAAAACCAATAA
 AAAAGATGGACTGAGCACAGAAGCATTCCACAAACCATCGAACAGATGAGCAAAAGTACACCTGT
 GGCCTGAAAGAGTCAGAACTGGGTTTATGTTTTCTGATCCTCCGGGACAGAAGGTAATGATGAGAAATG
 CTGCTGACAAGGACAAAGATTTATGATGTGGATACCAGGAAAAGACTGAGCACAATTGACGAGCTGGA
 CGAACTCTCCCTAGCAGAGATCCAATGTGTTTCAATTTTCTTGAAGCAAAAAGGAGTATAAC
 AGCATTGGTGTGAGTGGCTTTGAGATTGCTATCCTGAAAAACAACAAGATAAAAAACAAGAAGTACAC
 TGATAGGTGGTAACCACAGTAAAATTGTTGTTGAACAAAGGAAGAGTGAATTTTGAAGTGAAGGCAAA
 ACTTCAGAGTTCCCCGACTACCTACAGGTCCTTGAAGAGCAAACAGCTTTGAACAAGATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220049 representing NM_178740
Red=Cloning site Green=Tags(s)

MFLWFLIIVSALISSTNADSDISVEICNVCSVSVENVLYVNCVKSVYRPNQLKPPWSNFYHLNFQNNF
LNILYPNTFVNFHAVSLHLGNNKLQNIIEGGAFLGLSALKQLHLNNEKILRADTFLGIENLEYLQADY
NLIKYIERGAFNKLHKLKVLILNDNLISFLPDNIFRFASLTHLDIRGNRIQKLPYIGVLEHIGRVVELQL
EDNPWNCSCDLLPLKAWLENMPYNIYIGEAI CETPSDLYGRLLKETNKQELCPMGTGSDFDVRI LPPSQQ
ENGFTTPNGHTTQTTLHRLVTKPPKTTNPSKISGIVAGKALSNRNLSQIVSYQTRVPLTPCPVPCFCKT
HPSDLGLSVNCQEKNIQSMESETPKPLNAKKLHVNGNNIKDVIDISDFTEFEGDLLHLGNSQITLIKGEV
FHNLTLNRRLYLNGNQIERLYPEIFSGLHNLQYLYLEYNLIKEILAGTFDSMPNLQLLYLNNLLKSLPV
YIFSGAPLARLNLRRNKFMYLPVSGVLDQLQSLTQIDLEGNPWDCTCDLVALKLWLEKLNIGIIVKELKC
ETPVQFANIELKSLKNEILCPKLLNKPSATFTSPAPAITFTTPLGPIRSPGGPVPLSILILSILVVLIL
TVFVAFCLLVFVLRNKKPTVKHEGLGNSECGSMQLQRKHDHKTNKKDGLSTEAFIPQTEQMSKSHTC
GLKESETGFMFSDPPGQKVMRMAADKDKDLLHVDTRKRLSTIDELDELFP SRDSNVFIQNFLSKKEYN
SIGVSGFEIRYPEKQDKKKNKSLIGGNHSKIIVVEQRKSEYFELKAKLQSSPDYLQVLEEQTALNKI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9012_h01.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_178740

ORF Size: 2511 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_178740.5](#)

RefSeq Size: 3935 bp

RefSeq ORF: 2514 bp

Locus ID: 245446

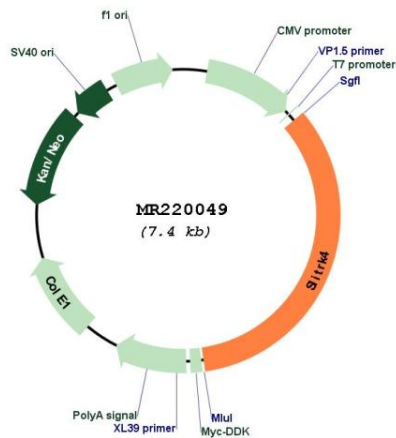
UniProt ID: [Q810B8](#)

Cytogenetics: X A7.1

MW: 95 kDa

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

Product images:



Circular map for MR220049