

Product datasheet for **MR206880**

Rusc1 (NM_028188) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rusc1 (NM_028188) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rusc1
Synonyms:	2210403N08Rik; AA408288; NESCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206880 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGAAGCCCAGAGTGGGACTGGCCAGCTGCAGGAGCAGAAGAAAGTCTCCTGATAGCTGTCAGCG
 CTTCAAGTGGACAAAATCATCTCGCATTTTGGGGCTGCTAGGAAGTGGTTTCAAGAGGCTCAATTGGGGGA
 TAGCCGACTGAGCCAGATGTGGGCATCTGGTATTGACCACCCTCTGCCCGGCCCTCCATGCTTTGGTG
 GCTGATGGGCTGAAGCCATTCCGGAAGGACCTCATCACTGGACAGCGGAGGAGCAGCCCTTGGAGTGTGG
 TGGAGGCATCTGTAAACCAGGTTCTGCACACATTCGATGGGATCTCTGTACAGCCAGGTGAGCCGACT
 GGCCCTCTGAGTAGCAGCCGACGCCGCTTCCACGCCTTCATCCTGGGCCTCCTCAACACCAAACAGTTG
 GAACTGTGGTTTTCCAGCCTCCAGGAGGATGCAGGCCTACTGTCCCTCTTGTATCTGCCACCGGATTCT
 TCTCCCTGGCTCGTGGTAGCTGTCCATCCCTGGCTACAGAGCTGCTGCTTCTGCTGCAGCCACTGTCGGT
 GCTCACCTTCCACCTGGACCTGCTCTTTGAGCACCACCACCCTACCCGTGGGCCTGCAGCAGGCTCCT
 GCCCTTCATGCCCCCTCCCGCCTCCAGCAGACTATGCAGGCTGTGCTGCAGTGGGGGAACGTTTGG
 CTCAGAGTCTCCGAGGGACTTCAGGGGAGAGCACTACAGACTCTTCAACCCCTCAGCACGCCCTCCAGC
 AGGCAGTTGGTGGGATCAGCTGACCCAGGCTTCTCGGGTCTATGCCTCTGGAGGCACTGAGGGCTTCCCT
 CTTCTCCGGTGGGGACCCAGGCGTCATGGAAGTACAGCTGAGGCGGCACAGGAGGACCTCCGCCACGG
 AACAAACCACACCAGGCAGAAGCGTGTGGTTGGGGCGGCTATTTGGTGTGCCTGGGTGCCCTCAGAAAC
 TGAGAGTGGCGCCTTCAAGTCTAGGAGACCATCCAGCTGGTTGCCCCACAGTAAGTGTGCTGGCTCTG
 GTGAAGAGGGGGACACCTCCTGAGACTCCTCCTGAGGCGCTTGTGAGCTACCAGGCAGCGTGGTGCAGG
 CTGACAGGGCAGTCCGGGCTCTCTGTGACCACACTGCTGCAGGACCTGACCAATTGAGCTTCCAGCGTGG
 GGAAATTGCTTCGAGTCATTGCCACAGTGGATGAAGACTGGCTTCGCTGTGGCGGGATGGTGTGGAGGGA
 CTGGTGGCCGTGGGATACACTTCCCTTGTCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206880 protein sequence
 Red=Cloning site Green=Tags(s)

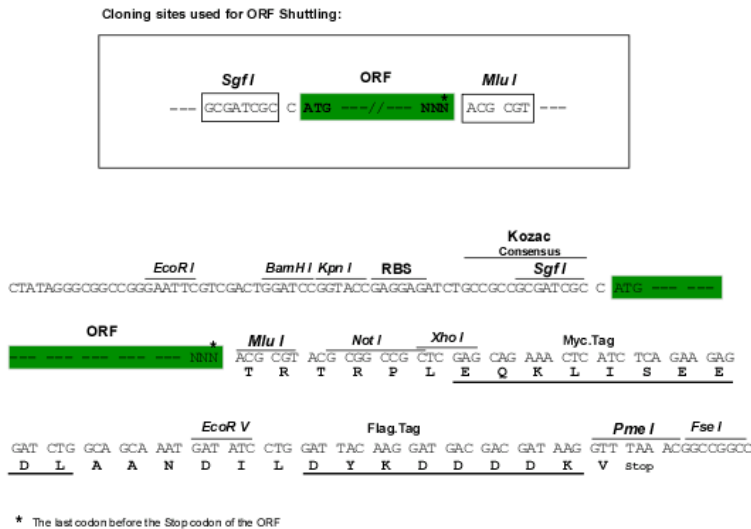
MAEAQSGTGQLQEQQKGLL IAVSASVDKII SHFGAARNL VQKAQLGDSRLSPDVGHLVLTTLCPALHALV
 ADGLKPFKDLITGQRRSSPWSVVEASVKPGSCTHSMGSLYSQVSR LAPLSSSRRFHAFILGLLNTKQL
 ELWFSSLQEDAGLLSLLYLPTGFFSLARGSCPSLATELLLLLQPLSVLTFHLDLLEFHHLHPVGLQQAP
 APSCPPPALQQTMAVLHWGERLAQSLRGTSGESTTDSSTPSARPPAGSWWDQLTQASRVYASGGTEGFP
 LLRWGPRRHGTTAEAAQEAPPTEQTTPGRSVWLGRLFGVPGCPSETESGAFKSRPSSWLPPTVSVLAL
 VKRGTPTPETPEALVSSPGSVVQADRAVRALCDHTAAGPDQLSFQRGELLRVIATVDEDWLRGRDGVVEG
 LVPVGYTSLVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_028188

ORF Size: 1296 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_028188.2](#), [NP_082464.2](#)

RefSeq Size: 3799 bp

RefSeq ORF: 3093 bp

Locus ID: 72296

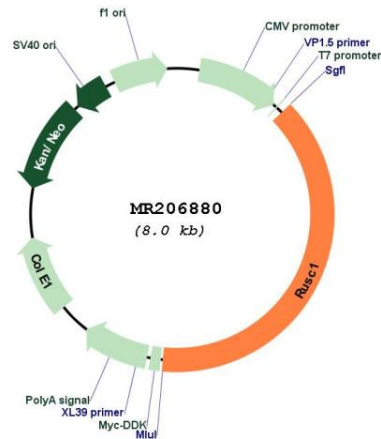
UniProt ID: [Q8BG26](#)

Cytogenetics: 3 F1

MW: 46.2 kDa

Gene Summary: Putative signaling adapter which may play a role in neuronal differentiation. May be involved in regulation of NGF-dependent neurite outgrowth. Proposed to play a role in neuronal vesicular trafficking, specifically involving pre-synaptic membrane proteins. Seems to be involved in signaling pathways that are regulated by the prolonged activation of MAPK. Can regulate the polyubiquitination of IKBKG and thus may be involved in regulation of the NF-kappa-B pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206880