

Product datasheet for **MG216656**

Rusc1 (NM_001083808) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rusc1 (NM_001083808) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rusc1
Synonyms:	2210403N08Rik; AA408288; NESCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216656 representing NM_001083808
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTCCCCTCAGCGGCTTTACTCTGCAACCTCAATCACATCCATCTCCAGCATGTCTCCCTAGGCC
 TGCACTTGTCCCCTCCTGAACTACGAGAGGGGCTCTGAGCACACCCCGCCCGGGAGACACCGG
 GGGCAAGGAAAGCAGGGGCCCTGCAGCGGGACCTTGTGGATGCCAACTCCAACAGTCCAGCTGTGCC
 TGTAGATGCTGCCAGGACACGGGTCCAGCATAGAAAATCAGCAGGACCTTCCAGGAGGAAGAGGCTG
 TTTCCCTTCAGATCCAGGATGCTTCTCTCTCAGCTCCTGCTCAGACCTTAGCCCTGATGAGTCTCC
 AGTGTCACTACTCGGAGACCTGCCTGGTAATGAGGATGCAAACCTCAGCCTAGCACCTGGAGCTG
 GGCTCTCTCTGGCTCCAGCGGGCCCTAGCACCTGCTCTCCAGACAGTTTCTGTTGCTCTCTGATTCTT
 GCTCTGGAATATCTTCTCCACCTGGACCTGACCTGGACTCGAAGTCAACGCCCTGACCACCTGCCAGGA
 CCTACCTTCCCCAGGCTTGGAGGAAGAGGAAGACAGTGGGGAACAGGATCTTGCTACCTCTGAGCTCTCA
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 TTGACACAGAGAAAAGTGAAGCTGGGTGAAAAACCATCGAGGACAGTGAATCTGGTCCGAAAAACAGACGA
 AAATACAACTCGAGCTTAAAAACGGAATCTGGGAAATTGGCTTCTGTTTGAACACCAATTCTGGTTTCG
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 CAAGAAAGATCGCAGCGACTGGCTCATAGTCTTCTCGCCGACACTGAGCTCCCGCCGACTGGGTCTTG
 GGAGGTTCTTTGGCACCTCCCCGAGAAGTCAACCTTCAAGAACTCCGGTTCGAGAAGCCGAGCCACGC
 CTCCGCCAGTCCCGCCCGGGACCCCGGCTGGGTGGCTTTGGTCCCGCTCGACCCCTCCCCACC
 CGTCCCTCCGCGGAGGAAGAAAAATCGACTTGGGCTGCAGCCTATTGCAGAGGGGCTGTCGGAGGAGGGC
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 CCGTGGTGCGCAGTTCCTGGTCGTTTGGCGGTGTTCCCGGGCTCAGCGCTGTGGATGGCAGAAGCCCA
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 CAGATGTGGGCTCTGGTATTGACCACCTCTGCCCGCCCTCCATGCTTGGTGGCTGATGGGCTGAA
 GCCATTCGGAAGGACCTCATCACTGGACAGCGGAGGAGCAGCCCTTGGAGTGTGGTGGAGGCATCTGTG
 AAACCAGGTTCTGCACACATTCATGGGATCTCTGTACAGCCAGGTGAGCCGACTGGCCCTCTGAGTA
 GCAGCCGAGCCGCTTCCACGCCTTCACTCTGGGCTCCTCAACACCAACAGTTGGAAGTGTGGTTTTTC
 CAGCCTCCAGGAGGATGCAGGCCTACTGTCCCTTGTATCTGCCACCCGATTCTTCTCCCTGGCTCGT
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 CCCTCCCGCCCTCCAGCAGACTATGCAGGCTGTGCTGCACTGGGGGAACGTTTGGCTCAGAGTCTCCGA
 GGGACTTCAGGGGAGAGCACTACAGACTTCAACCCCTCAGCACGCCCTCCAGCAGGCAGTTGGTGGG
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 GGCAGAAGCGTGTGGTTGGGGCGCTATTTGGTGTGCCTGGGTGCCCTCAGAAACTGAGAGTGGCGCCT
 TCAAGTCTAGGAGACCATCCAGCTGTTGCCCAACAGTAAGTGTGCTGGCTCTGGTGAAGAGGGGAC
 ACCTCCTGAGACTCCTCCTGAGGCGCTTGTGAGCTCACCAGGCAGCGTGGTGCAGGCTGACAGGGCAGTC
 CGGGCTCTCTGTGACCACACTGCTGCAGGACCTGACCAATTGAGCTTCCAGCGTGGGGAATTGCTTCGAG
 TCATTGCCACAGTGGATGAAGACTGGCTTCGCTGTGGCGGGATGGTGTGGAGGGACTGGTCCCGTGGG
 ATACACTCCCTTGTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216656 representing NM_001083808
 Red=Cloning site Green=Tags(s)

MLSPQRALLCNLNHIHLQHVSLGLHLRRPELREGPLSTPPPPGDTGGKESRGPCSGTLVDANSNPAVP
 CRCCQEHGSSIIENQQDPSQEEEEAVSPSDPGCSSLSSCSLSPDESPVSVYSRDLPGNEDANPQPSTLEL
 GSPLAPAGPSTCSPDSCSPDSCSGISSPPGPDLDNSCNALTTCCDLPSGLEEEEEESGEQDLATSELS
 ETEDGRIDAGKAEPSWKINPIWKIDTEKTEAGWKTIEDSDSGRKTIDENTNSSLKTESGKLASCLNTNSGS
 KIDAGKTDGGWRGDVVSQEPVPHRTITSFHELAQKRKRGPLPLVPQAKKDRSDWLVFSPDELPTGSL
 GGSLAPPREVTTFKELRSRSRAQPPVPPRDPPAGWALVPPRPPPPVPPRRKKNRLGLQPIAEGLSEEG
 RAASPRAGEEASASQEPEEPRAHAVRSSWSFAGVPGAQRLWMAEAQSGTQQLQEKKGLLIAVSASVDK
 IISHFGAARNLVQKAQLGDSRLSPDVGHLLVLTTLCPALHALVADGLKPFKDLITGQRRSSPWSVVEASV
 KPGSCTHSMGSLYSQVSRAPLSSSRRFHAFILGLLNTKQLELWFSLQEDAGLLSLLYLPTGFFSLAR
 GSCPSLATELLLLLQPLSVLTFHLDLLFEHHHLLPVGLQQAPAPSCPPPALQQTMAVLAHWGERLAQSLR
 GTSGESTTDSSTPSARPPAGS WWDQLTQASRVYASGGTEGFLLRWGPRRHGTTAEAAQEAPPTEQTTP
 GRSVWLGRLFGVPGCPSETESGAFKSRPSSWLPTVSVLALVKRGTPPETPPEALVSSPGSVVQADRAV
 RALCDHTAAGPDQLSFQRGELLRVIA TVDEDWLRRCGRDGEGLVPVGYTSLVL

TRTRPLE - GFP Tag - V

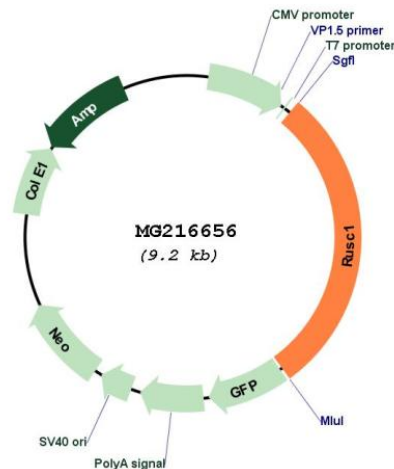
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001083808

ORF Size: 1293 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_001083808.1](#), [NP_001077277.1](#)

RefSeq Size: 1928 bp

RefSeq ORF: 1296 bp

Locus ID: 72296

UniProt ID: [Q8BG26](#)

Cytogenetics: 3 F1

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]