

## Product datasheet for **MR216650**

### **Rusc1 (NM\_001083807) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rusc1 (NM_001083807) 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:**

>MR216650 representing NM\_001083807  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGTCCCCTCAGCGGCTTTACTCTGCAACCTCAATCACATCCATCTCCAGCATGTCTCCCTAGGCC  
 TGCACTTGTCCCCTGCTGAACTACGAGAGGGGCTCTGAGCACACCCCGCCCGGGAGACACCGG  
 GGGCAAGGAAAGCAGGGGCCCTGCAGCGGGACCTTGTGGATGCCAACTCCAACAGTCCAGCTGTGCC  
 TGTAGATGCTGCCAGGACACGGGTCCAGCATAGAAAATCAGCAGGACCTTCCAGGAGGAAGAGGCTG  
 TTTCCCTTCAGATCCAGGATGCTTCTCTCTCAGCTCCTGCTCAGACCTTAGCCCTGATGAGTCTCC  
 AGTGTCACTACTCGGAGACCTGCCTGGTAATGAGGATGCAAACCTCAGCCTAGCACCTTGGAGCTG  
 GGCTCTCTCTGGCTCCAGCGGGCCCTAGCACCTGCTCTCCAGACAGTTTCTGTTGCTCTCTGATTCTT  
 GCTCTGGAATATCTTCTCCACCTGGACCTGACCTGGACTCGAAGTCAACGCCCTGACCACCTGCCAGGA  
 CCTACCTTCCCCAGGCTTGGAGGAAGAGGAAGACAGTGGGGAACAGGATCTTGCTACCTCTGAGCTCTCA  
 GAGACCGAAGATGGGAGAATCGACGCAGGGAAAGCAGAGCCAGTTGGAAAATTAAACCCATTGGAAAA  
 TTGACACAGAGAAAAGTGAAGCTGGGTGGAAAACCATCGAGGACAGTGAATCTGGTCCGAAAAACAGACGA  
 AAATACAACTCGAGCTTAAAAACGGAATCTGGGAAATTGGCTTCTGTTTGAACACCAATTCTGGTTCCG  
 AAAATAGATGCAGGAAAAGTATGGGGATGGAGAGGTGACGTGAGCCAGGAGCCGGTGCCTCATCGGA  
 CAATCACGTCTTCCATGAGCTGGCCAGAAAGCGCAAGCGGGTCCAGGGCTGCCCTTGTGCCGAGGC  
 CAAGAAAGATCGCAGCGACTGGCTCATAGTCTTCTCGCCGACACTGAGCTCCCGCCGACTGGGTCTTG  
 GGAGGTTCTTTGGCACCTCCCCGAGAAGTCAACACCTTCAAGGAAGTCCGGTTCGAGAAGCCGAGCCAGC  
 CTCCGCCAGTCCCGCCCGGGACCCCGGCTGGGTGGGCTTTGGTCCCGCTCGACCCCTCCCCACC  
 CGTCCCTCCGCGGAGGAAGAAAATCGACTTGGGCTGCAGCCTATTGCAGAGGGGCTGTCGGAGGAGGGC  
 AGGGCGGCCAGCCCGGGCTGGTGAAGGAGCATCCGCCTCGCAGGAGCCGGAGGAACCGCGCGCCAGC  
 CCGTGGTGCAGTTCCTGGTCGTTTGGCGGTGTTCCCGGGCTCAGCGCTGTGGATGGCAGAAGCCCA  
 GAGTGGGACTGGCCAGCTGCAGGAGCAGAAGAAAGGTCTCTGATAGCTGTGAGCGCTTCAAGTGGACAAA  
 ATCATCTCGATTTTGGGCTGCTAGGAACTTGGTTCAGAAGGCTCAATTGGGGATAGCCGACTGAGCC  
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 GCCATTCGGAAGGACCTCATCACTGGACAGCGGAGGAGCAGCCCTTGGAGTGTGGTGGAGGCATCTGTG  
 AAACCAGGTTCTGCACACATTCATGAGGATCTCTGTACAGCCAGGTGAGCCGACTGGCCCTCTGAGTA  
 GCAGCCGAGCCGCTTCCACGCCTTCACTGAGGCTCCTCAACACCAACAGATTGGAAGTGTGGTTTTTC  
 CAGCCTCCAGGAGGATGCAGGCCTACTGTCCCTTGTATCTGCCACCCGATTCTTCTCCCTGGCTCGT  
 GGTAGCTGTCCATCCCTGGTACAGAGCTGCTGCTTCTGCTGCAGCCACTGTCCGGTGTACCTTCCACC  
 TGGACCTGCTCTTTGAGCACCACCACCTACCCGTGGGCTGCAGCAGGCTCTGCCCTTATGCC  
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 GGCAGAAGCGTGTGGTTGGGGCGCTATTTGGTGTGCCTGGGTGCCCTCAGAAAAGTGAAGTGGCGCCT  
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 ACCTCCTGAGACTCCTCCTGAGGCGCTTGTGAGCTCACCAGGCAGCGTGGTGCAGGCTGACAGGGCAGTC  
 CGGGCTCTCTGTGACCACACTGCTGCAGGACCTGACCAATTGAGCTTCCAGCGTGGGGAATTGCTTCGAG  
 TCATTGCCACAGTGGATGAAGACTGGCTTCGCTGTGGCGGGATGGTGTGGAGGGACTGGTGCCCGTGG  
 ATACACTCCCTTGTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAAGTCACTCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216650 representing NM\_001083807  
 Red=Cloning site Green=Tags(s)

MLSPQRALLCNLNHIHLQHVSLGLHLRRPELREGPLSTPPPPGDTGGKESRGPCSGTLVDANSNSPAVP  
 CRCCQEHGSSIENQQDPSQEEEEAVSPSDPGCSSLSSCSLSPDESPVSVYSRDLPGNEDANPQPSTLEL  
 GSPLAPAGPSTCSPDSCSPDSCSGISSPPGPDLSNCNLTTCCQLPSPGLEEEEDSGEQDLATSELS  
 ETEDGRIDAGKAEPSWKINPIWKIDTEKTEAGWKTIEDSDSGRKTIDENTNSSLKTESGKLASCLNTNSGS  
 KIDAGKTDGGWRGDVSPQEPVPHRTITSFHELAQKRKRGPLPLVPQAKKDRSDWLIVFSPDTELPTGSL  
 GGSLAPPREVTTFKELRSRSRAQPPPVPVPRDPPAGWALVPPRPPPPVPPRRKKNRLGLQPIAEGLSEEG  
 RAASPRAGEEASASQEPEEPRAHAVRSSWSFAGVPGAQRLWMAEAQSGTQQLQEQQKGLLIAVSASVDK  
 IISHFGAARNLVQKAQLGDSRLSPDVGHVLVLTLLCPALHALVADGLKPFKDLITGQRRSPWSVVEASV  
 KPGSCTHSMGSLYSQVSRAPLSSRSRFHAFILGLLNTKQLELWFSLQEDAGLLSLLYLPTGFFSLAR  
 GSCPSLATELLLLLQPLSVLTFHLDLLFEHHHLPVGLQQAPAPSCPPPALQQTMAVHLHWGERLAQSLR  
 GTSGESTTDSSTPSARPPAGS WWDQLTQASRVYASGGTEGFLLRWGPRRHGTTAEAAQEAPPTEQTTP  
 GRSVWLGRLLFGVPGCPSETESGAFKSRPSSWLPTVSVLALVKRGTPEPPEALVSSPGSVVQADRAV  
 RALCDHTAAGPDQLSFQRGELLRVIATVDEDWLRRCGRDGEGLVPVGYTSLVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

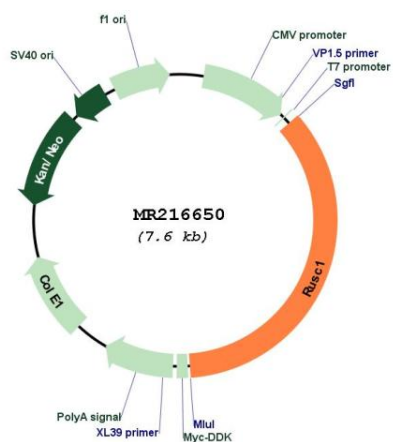
Cloning Scheme:



ACCN: NM\_001083807

<b>ORF Size:</b>	2679 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001083807.1</a> , <a href="#">NP_001077276.1</a>
<b>RefSeq Size:</b>	3388 bp
<b>RefSeq ORF:</b>	2682 bp
<b>Locus ID:</b>	72296
<b>UniProt ID:</b>	<a href="#">Q8BG26</a>
<b>Cytogenetics:</b>	3 F1
<b>MW:</b>	95.6 kDa
<b>Gene Summary:</b>	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 MR216650