

## Product datasheet for **MC222429**

### **Rusc1 (NM\_001083807) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rusc1 (NM_001083807) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >MC222429 representing NM\_001083807  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGTCCCCTCAGCGGCTTTACTCTGCAACCTCAATCACATCCATCTCCAGCATGTCTCCCTAGGCC  
 TGCACTTGTCCCCTGCTCTGAACTACGAGAGGGGCTCTGAGCACACCCCGCCCGGGAGACACCGG  
 GGGCAAGGAAAGCAGGGGCCCTGCAGCGGGACCTTGTGGATGCCAACTCCAACAGTCCAGCTGTGCC  
 TGTAGATGCTGCCAGGACACGGGTCCAGCATAGAAAATCAGCAGGACCTTCCAGGAGGAAGAGGCTG  
 TTTCCCTTCAGATCCAGGATGCTTCTCTCTCAGCTCCTGCTCAGACCTTAGCCCTGATGAGTCTCC  
 AGTGTCACTACTCGGAGACCTGCCTGGTAATGAGGATGCAAACCTCAGCCTAGCACCTGGAGCTG  
 GGCTCTCTCTGGCTCCAGCGGGCCCTAGCACCTGCTCTCCAGACAGTTTCTGTTGCTCTCTGATTCTT  
 GCTCTGGAATATCTTCTCCACCTGGACCTGACCTGGACTCGAAGTGAACGCCCTGACCACCTGCCAGGA  
 CCTACCTTCCCCAGGCTTGGAGGAAGAGGAAGACAGTGGGGAACAGGATCTTGCTACCTCTGAGCTCTCA  
 GAGACCGAAGATGGGAGAATCGACGCAGGGAAAGCAGAGCCAGTTGGAAAATTAAACCCATTGGAAAA  
 TTGACACAGAGAAAAGTGAAGCTGGGTGGAAAACCATCGAGGACAGTGAAGTCTGGTCCGAAAACAGACGA  
 AAATACAACTCGAGCTTAAAAACGGAATCTGGGAAATTGGCTTCTGTTTGAACACCAATTCTGGTTTCG  
 AAAATAGATGCAGGAAAAGTATGGGGATGGAGAGGTGACGTGAGCCAGGAGCCGGTGCCTCATCGGA  
 CAATCACGTCTTCCATGAGCTGGCCAGAAAGCAGCGGGGTCCAGGGCTGCCCTTGTGCCGAGGC  
 CAAGAAAGATCGCAGCGACTGGCTCATAGTCTTCTCGCCGACACTGAGCTCCCGCCGACTGGGTCTTG  
 GGAGGTTCTTTGGCACCTCCCCGAGAAGTCACCACCTTCAAGGAACTCCGGTTCGAGAAGCCGAGCCACG  
 CTCCGCCAGTCCCGCCCGGGACCCCGGCTGGGTGGGCTTTGGTCCCGCTCGACCCGCTCCCCCACC  
 CGTCCCTCCGCGGAGGAAGAAAATCGACTTGGGCTGCAGCCTATTGACAGAGGGGCTGTCGGAGGAGGGC  
 AGGGCGGCCAGCCCGGGCTGGTGAAGGAGCATCCGCCTCGCAGGAGCCGGAGGAACCGCGCGCCAGC  
 CCGTGGTGCAGTTCCTGGTCGTTTGCCTGTTTCCCGGGCTCAGCGCTGTGGATGGCAGAAGCCCA  
 GAGTGGGACTGGCCAGCTGCAGGAGCAGAAGAAAGGTCTCTGATAGCTGTGAGCGCTTCAAGTGGACAAA  
 ATCATCTCGATTTTGGGCTGCTAGGAACTTGGTTCAGAAGGCTCAATTGGGGATAGCCGACTGAGCC  
 CAGATGTGGGCTCTGGTATTGACCACCTCTGCCCGCCCTCCATGCTTGGTGGCTGATGGGCTGAA  
 GCCATTCGGAAGGACCTCATCACTGGACAGCGGAGGAGCAGCCCTTGGAGTGTGGTGGAGGCATCTGTG  
 AAACCAGGTTCTGCACACATTCATGGGATCTCTGTACAGCCAGGTGAGCCGACTGGCCCTCTGAGTA  
 GCAGCCGAGCCGCTTCCACGCCTTCACTGGGCTCCTCAACACCAACAGTTGGAAGTGTGGTTTTTC  
 CAGCCTCCAGGAGGATGCAGGCCTACTGTCCCTTGTATCTGCCACCCGATTCTTCTCCCTGGCTCGT  
 GGTAGCTGTCCATCCCTGGTACAGAGCTGCTGCTTCTGCTGCAGCCACTGTCCGTGCTCACCTCCACC  
 TGGACCTGCTCTTTGAGCACCACCACCTACCCGTGGGCTGCAGCAGGCTCTGCCCTTATGCC  
 CCCTCCCGCCCTCCAGCAGACTATGCAGGCTGTGCTGCACTGGGGGAACGTTTGGCTCAGAGTCTCCGA  
 GGGACTCAGGGGAGAGCACTACAGACTTCAACCCCTCAGCACGCCCTCCAGCAGGCAGTTGGTGGG  
 ATCAGCTGACCCAGGCTTCTCGGCTATGCCTCTGGAGGCACTGAGGGCTTCCCTTCTCCGGTGGG  
 ACCCAGGCGTCATGGAACACTACAGCTGAGGCGGCACAGGAGGCACCTCCGCCACGGAACAAACACACCA  
 GGAGAAAGCGTGTGGTTGGGGCGGCTATTTGGTGTGCCTGGGTGCCCTCAGAAACTGAGAGTGGCGCCT  
 TCAAGTCTAGGAGACCATCCAGCTGTTGCCCAACAGTAAGTGTGCTGGCTCTGGTGAAGAGGGGGAC  
 ACCTCCTGAGACTCCTCCTGAGGCGCTTGTGAGCTCACCAGGCAGCGTGGTGCAGGCTGACAGGGCAGTC  
 CGGGCTCTCTGTGACCACACTGCTGCAGGACCTGACCAATTGAGCTTCCAGCGTGGGGAATTGCTTCGAG  
 TCATTGCCACAGTGGATGAAGACTGGCTTCGCTGTGGCGGGATGGTGTGGAGGGACTGGTGCCCGTGGG  
 ATACACTCCCTTGTCTG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001083807

<b>Insert Size:</b>	2682 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_001083807.1</a></u> , <u><a href="#">NP_001077276.1</a></u>
<b>RefSeq Size:</b>	3388 bp
<b>RefSeq ORF:</b>	2682 bp
<b>Locus ID:</b>	72296
<b>UniProt ID:</b>	<u><a href="#">Q8BG26</a></u>
<b>Cytogenetics:</b>	3 F1
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1, resulting in a shorter protein (isoform 2), compared to isoform 1.</p>