

## Product datasheet for **MR216656**

### **Rusc1 (NM\_001083808) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rusc1 (NM_001083808) 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:**

>MR216656 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGTCCCCTCAGCGGCTTTACTCTGCAACCTCAATCACATCCATCTCCAGCATGTCTCCCTAGGCC  
 TGCACTTGTCCCCTGCTGAACTACGAGAGGGGCTCTGAGCACACCCCGCCCGGGAGACACCGG  
 GGGCAAGGAAAGCAGGGGCCCTGCAGCGGGACCTTGTGGATGCCAACTCCAACAGTCCAGCTGTGCC  
 TGTAGATGCTGCCAGGACACGGGTCCAGCATAGAAAATCAGCAGGACCTTCCAGGAGGAAGAGGCTG  
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 AGTGTCACTACTCGGAGACCTGCCTGGTAATGAGGATGCAAACCTCAGCCTAGCACCTTGGAGCTG  
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 TTGACACAGAGAAAAGTGAAGCTGGGTGGAAAACCATCGAGGACAGTGAATCTGGTCCGAAAACAGACGA  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAAAAGTCACTCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216656 protein sequence  
 Red=Cloning site Green=Tags(s)

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MLSPQRALLCNLNHIHLQHVSLGLHLRRPELREGPLSTPPPPGDTGGKESRGPCSGTLVDANSNPAVP
CRCCQEHGSSIIENQQDPSQEEEEAVSPSDPGCSSLSSCSLSPDESPVSVYSRDLPGNEDANPQPSTLEL
GSPLAPAGPSTCSPDFCCSPDSCSGISSPPGPDLDNSCNALTTCCDLPSGLEEEEDSGEQDLATSELS
ETEDGRIDAGKAEPSWKINPIWKIDTEKTEAGWKTIEDSDSGRKTIDENTNSSLKTESGKLASCLNTNSGS
KIDAGKTDGGWRGDVVSQEPVPHRTITSFHELAQKRKRGPLPLVPQAKKDRSDWLIVFSPDTELPTGSL
GGSLAPPREVTTFKELRSRSRAQPPPVPVPRDPPAGWALVPPRPPPPVPPRRKKNRGLQPIAEGLSEEG
RAASPRAGEEASASQEPEEPRAHAVVRSWSFAGVPGAQRLWMAEAQSGTQQLQEQQKGLLIAVSASVDK
IISHFGAARNLVQKAQLGDSRLSPDVGHLVLTTLCPALHALVADGLKPFKDLITGQRRSPWSVVEASV
KPGSCTHSMGSLYSQVSRAPLSSRSRFHAFILGLLNTKQLELWFSLQEDAGLLSLLYLPTGFFSLAR
GSCPSLATELLLLLQPLSVLTFHLDLLFEHHHLPVGLQQAPAPSCPPPALQQTMQAVLHWGERLAQSLR
GTSGESTTDSSTPSARPPAGS WWDQLTQASRVYASGGTEGFLLRWGPRRHGTTAEAAQEAPPTEQTTP
GRSVLWLRGLFGVPGCPSETESGAFKSRPSSWL PPTVSVLALVKRGTPEPPEALVSSPGSVVQADRAV
RALCDHTAAGPDQLSFQRGELLRV IATVDEDWLRRCGRDGEGLVPVGYTSLVL
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

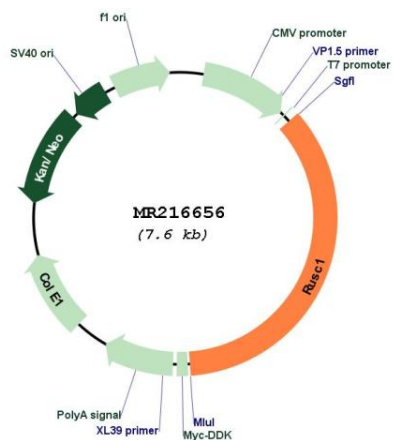
Cloning Scheme:



ACCN: NM\_001083808

<b>ORF Size:</b>	2682 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 Size:</b>	1928 bp
<b>RefSeq ORF:</b>	1296 bp
<b>Locus ID:</b>	72296
<b>UniProt ID:</b>	<a href="#">Q8BG26</a>
<b>Cytogenetics:</b>	3 F1
<b>MW:</b>	95.2 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 IKK $\beta$ and thus may be involved in regulation of the NF- $\kappa$ B pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216656