

## Product datasheet for **RC226251**

### **RUSC1 (NM\_001105203) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RUSC1 (NM_001105203) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RUSC1
Synonyms:	NESCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC226251 representing NM\_001105203  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGTCCCCTCAGAGAGCTTTACTCTGCAACCTCAACCACATCCACCTCCAGCAGTCTCCCTGGGCC  
 TGCACTTGTCCCCTCCTGAGCTACAGGAGGGCCTTTGAGCACACCCCTCCTCCAGGAGACTGG  
 GGGCAAGGAGAGCAGGGGCCCTGCAGTGGCACCTGGTGGACGCCAATCCAACAGCCAGCTGTGCC  
 TGCCGGTGTGCCAGGAGCAGGTCCGGCCCTAGAAAACCGCAGGACCCGTACAGGAGGAAGAGGGGG  
 CTGCCTCTCCCTCAGACCAGGCTGCTCCTCACTCAGCTCCTGCTCAGATCTTAGCCCCGATGAGTC  
 CCCTGTCTCAGTCTACTTGGGGACCTCCCTGGTATGAGGATGCCACCCCTCAGCCAGTATCATCCCC  
 CTGGAGCAGGGCTCCCCACTGGCTTCCAGAGCCCTGGCACCTGCTACCGGACAGCTTCTGCTGCTCTC  
 CTGATTCCTGCTCCGGAGCTTCTTCCACCCGATCCTGGCCTGGACTCGAAGTCAACGCCCTGACCAC  
 CTGCCAGGACGTCCCTTCCCAGGCTTGGAGGAAGAGGACGAGAGGGCGGAGCAGGATCTCCCTACCTCT  
 GAGCTCTTAGAGGCGGATGATGGAAAAATCGACGCTGGGAAAACGAGCCAGTTGGAAGATTAACCCAA  
 TTTGAAAATGACACAGAGAAAATAAAGCTGAATGGAAAACCACTGAAAACAATAACTGTTGGAA  
 AAACAACGGGAATGTTAACTCTAGCTGGAAAAGTGAACCTGAAAATTCGACTCTGGTTGGAAAACCAAC  
 ACAAGAATAACTGATTCTGGCTCGAAAACAGATGCAGGGAAAAATTGATGGAGGATGGAGAAGTGACGTCA  
 GCGAGGAGCCGGTGGCCACCGGACAATCACGTCTTCCACGAGCTGGCCAGAAGCGCAAGCGGGGCC  
 AGGGTGGCCCTTGTCCCGCAGGCGAAGAAAGATCGCAGTACTGGCTCATAGTCTTCTCGCCGACACC  
 GAGTCCCCCTCGGGTTCGCCGGCGGCTCCTCGGCACCTCCTCGGAAGTCAACACCTTCAAGGAAC  
 TCCGGTCCCGAAGCCGGGCCCCAGCCCGCCAGTCCCGCTCGAGACCCCAAGTTGGTGGGCTTGGT  
 CCGGCCCGGCCCCACCCCGCTGTCCTCCCGAAGGAAGAAGAACCAGCTGGACTGCAGCCATA  
 GCGGAGGGGAGTCCGAGGAGGGCCGGGTGTAGCCAGCGGCTGGCGAGGAGGCCAGCCGGAAGG  
 AGCCGGGCGCGCAGGCCGGCTGGAGGTCGTAAGTTCGTTGGTCTTCCCGGAGTCCCGGAGCCAGCG  
 GCTGTGGATGGCAGAAGCCAGAGTGGGACTGGTCAAGTGCAGGAGCAGAAGAAAGGTTCTTGATAGCC  
 GTCAGCGTCTCCGTTGATAAAATCATCTCGATTTCCGGGCGCCCGGAACCTGGTGCAGAAGGCCAGT  
 TGGGTGATAGCCGGTGAAGCCGGATGTGGGCACCTGGTGTGACCACCTCTGCCCGCCCTCCACGC  
 CCTGGTGGCGGACGGCTGAAGCCTTCCGGAAGGACCTCATACCGGGCAGCGCAGGAGCAGCCCTGG  
 AGCGTGGTGGAGCGTGGTGAAGCCAGGCTCCAGCACCCGCTCCCTTGAACCTGTATAGCCAGGTCA  
 GCCGTCTAGCCCCGTGAGCAGCAGCCGTAGCCGCTTCCATGCCTTTATCCTGGGCTCCTCAACACCAA  
 GCAGTTGGAGCTGTGGTTTTCCAGTCTCCAGGAAGATGCAGGCCTGCTCTCCCTCCTGTACTGCCAACA  
 GGATTTTTCTCCCTGGCCCGGGTGGTTGTCCCTCCCTGTCCACAGAGCTGCTGCTCCTGCTGCAGCCAT  
 TGTCCGGTCTCACTTCCACCTGGACCTGCTCTTTGAGCACACCACCACCTGCCCTGGGCCACCTCA  
 GGCCCTGCCCTCCAGGCCACCTCCAGCTCTGCAGCAGACTATGCAAGCCATGCTGCACTTTGGGGG  
 CGGCTGGCCAGAGCCTTCGGGGACTTCCAAGGAAGTGTTCAGACCCCTCTGACTCTCCAAACCTTC  
 CCACACCAGGGAGCTGGTGGGAGCAGTTGACCCAGGCCTCCGGGTCTATGCCTTGGGGCACTGAGGG  
 CTTTCTCTTTCCGATGGCACCGGGGCTCATGGACTGCAGCTGAAGAAGGTGCACAGGAGAGACCC  
 CTGCCACAGATGAGATGGCACAGCAGGGGCCCTCTGGTTGGGAAGACTATTTGGAGTGCCTGGGGGCC  
 CCGCAGAAAATGAGAATGGAGCCCTAAAGTCCAGGAGACCATCTAGCTGGCTGCCCCGACAGTGTGT  
 GTTGGCTCTTGTGAAGCGGGGGCACCTCCCGAGATGCCTTCTCCTCAGGAGCTTGAAGCCTCAGCACCC  
 AGGATGGTGAAACCCATAGGGCAGTGGGGCTCTCTGTGATCACACTGCTGCAAGACCTGACAGTTGA  
 GCTTCCGGCGTGGGAAGTGTGCGTGTATCACACAGTGGATGAGGACTGGCTCCGCTGTGGCGGGA  
 TGGCATGGAGGTCTGGTGCCTGTGGGTATACCTCCCTGTTCTG

**ACCGT**ACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC226251 representing NM\_001105203  
 Red=Cloning site Green=Tags(s)

MLSPQRALLCNLNHIHLQHVSLGLHLRRPELQEGPLSTPPPPGDTGGKESRGPCSGTLVDANSNPAVP  
 CRCCQEHGPGLENRQDPSEQEEGAASPDGCGSSSLSSCSLSPDESPVSVYLRDLPGDEDAHQPQSIIP  
 LEQGSPLASAGPGTCSPDFCCSPDSCSGASSSPDGLDSNCNALTTCQDVPSPGLEEEDERAQDLPTS  
 ELLLEADDGKIDAGKIDGWRSDVSEEPVPHRTITSFHELAQKRKRGPGLPLVPQAKKDRSDWLIVFSPDT  
 ELPPSGSPGSSAPPREVTTFKELRSRSPAPPVPPRDPVPGWALVPPRPPPPVPPRRKKNRPLQPI  
 AEGQSEEGRAVSPAAGEEAPAAKEPGAQAGLEVRSSWSFAGVPGAQRLWMAEAQSGTGQLQEQQKGLLIA  
 VSVSVDKIIISHFGAARNLVQKAQLGDSRLSPDVGHLLVLTLCPALHALVADGLKPFKDLITGQRRSSPW  
 SVVEASVKPGSSRSLGTLYSQVRLAPLSSRSRFHAFILGLLNTKQLELWFSLQEDAGLLSLLYLP  
 GFFSLARGGCPSTELLQPLSVLTFHLDLLEFHHHHLPLGPPQAPAPPGPPALQQTMOAMLHFGG  
 RLAQSLRGTSKAASDPSPNLPPTGSSWWEQLTQASRVYASGGTEGFPLSRWAPGRHGTAEEGAQERP  
 LPTDEMAPGRGLWLRGLFGVPGGPAENENGALKSRPSSWLPTVSVLALVKGAPPEMPSQLEASAP  
 RMVQTHRAVRALCDHTAARPDQLSFRRGEVLRVITTVDEDWLRGGRDGMGLVPVGYTSLVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

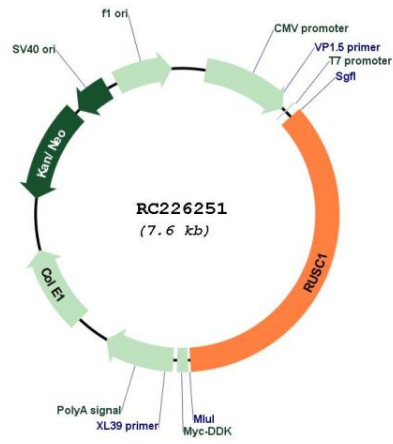
**Cloning Scheme:**



**ACCN:** NM\_001105203

<b>ORF Size:</b>	2706 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_001105203.2</a>
<b>RefSeq ORF:</b>	2709 bp
<b>Locus ID:</b>	23623
<b>UniProt ID:</b>	<a href="#">Q9BVN2</a>
<b>Cytogenetics:</b>	1q22
<b>MW:</b>	96.3 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 RC226251