

## Product datasheet for **RC238200**

### **RUSC1 (NM\_001278230) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RUSC1 (NM_001278230) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC238200 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAGAAGCCAGAGTGGACTGGTCACTGCAGGAGCAGAAGAAAGTCTTCTGATAGCCGTCAGCG  
 TCTCCGTTGATAAAATCATCTCGCATTTTCGGGGCCGCCGGAACCTGGTGCAGAAGGCCAGTTGGGTGA  
 TAGCCGGCTGAGCCCGGATGTGGGGCACCTGGTCTGACCACCCTCTGCCCGGCCCTCCACGCCCTGGT  
 GCGGACGGCTGAAGCCTTTCGGAAGGACCTCATCACCAGGAGCAGGAGCAGCCCTGGAGCGTGG  
 TGGAGGCGTGGTGAAGCCAGGCTCCAGCACCCGCTCCCTTGGAAACCTGTATAGCCAGGTGAGCCGCT  
 AGCCCCGCTGAGCAGCAGCCGTAGCCGCTTCCATGCCTTTATCCTGGGCCTCCTCAACACCAAGCAGTTG  
 GAGCTGTGGTTTTCCAGTCTCCAGGAAGATGCAGGCTGCTCCTCCTGTACCTGCCAACAGGATTTT  
 TCTCCCTGGCCCGGGTGGTGTCCCTCCCTGTCCACAGAGCTGCTGCTCCTGCTGCAGCCATTGTCGGT  
 GCTCACTTTCACCTGGACCTGCTCTTTGAGCACCACCACCCTGCCCTGGGCCACCTCAGGCCCT  
 GCCCTCCAGGCCACCTCCAGCTCTGCAGCAGACTATGCAAGCCATGCTGCACCTTTGGGGCCCGCTGG  
 CCCAGAGCCTTCGGGGGACTTCCAAGGAAGCTGCTTCAGACCCCTCTGACTCTCCAAACCTCCACACC  
 AGGGAGCTGGTGGGAGCAGTTGACCCAGGCTCCCGGGTCTATGCCTCTGGGGGACTGAGGGCTTTCCT  
 CTTTCCGATGGGACCGGGGCGTATGGGACTGCAGTGAAGAAGTGCACAGGAGAGACCCCTGCCCA  
 CAGATGAGATGGCACCAGGACGGGGCTCTGGTTGGGAAGACTATTTGGAGTGCCTGGGGCCCCGAGA  
 AAATGAGAATGGAGCCCTAAAGTCCAGGAGACCTAGCTGGCTGCCCCGACAGTGAAGTGTGGTGGCT  
 CTTGTGAAGCGGGGGCACCTCCCGAGATGCCTTCTCCTCAGGAGCTTGAAGCCTCAGCACCCAGGATGG  
 TGCAAACCCATAGGGCAGTGGGGCTCTGTGATCACACTGCTGCAAGACCTGACCAGTTGAGCTCCG  
 GCGTGGGGAAGTCTGCGTGTATCACACAGTGGATGAGGACTGGCTCCGCTGTGGGCGGGATGGCATG  
 GAGGGTCTGCTGCTGTGGGTATACCTCCCTGTTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238200 protein sequence  
 Red=Cloning site Green=Tags(s)

MAEAQSGTGQLQEQQKGLL IAVSVSVDKII SHFGAARNL VQKAQLGDSRLSPDVGHLVLTTLCPALHALV  
 ADGLKPRKDLITGQRRSPWSVVEASVKPGSSTRSLGTLYSQVSRAPLSSSRRFHAFILGLLNTKQL  
 ELWFSSQLQEDAGLLSLLYLPTGFFSLARGGCPSTELLLLLQPLSVLTFHLDLLEHHHHLPLGPPQAP  
 APPGPPALQQTMQAMLHFGGRLAQSLRGTSKEAASDPSPNLPTPGSWWEQLTQASRVYASGGTEGFP  
 LSRWAPGRHGTAEEGAQERPLPTDEMAPGRGLWLGRFGVPGGPAENENGALKSRRPSSWLPTTVSVLA  
 LVKRGAPPEMPSQELEASAPRMVQTHRAVRALCDHTAARPDQLSFRRGEVLRVITTVDEDWLRRCGRDGM  
 EGLVPVGYTSLVL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6588\\_c12.zip](https://cdn.origene.com/chromatograms/mk6588_c12.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001278230

**ORF Size:** 1299 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\\_001278230.2](#)

**RefSeq Size:** 2367 bp

**RefSeq ORF:** 1302 bp

**Locus ID:** 23623

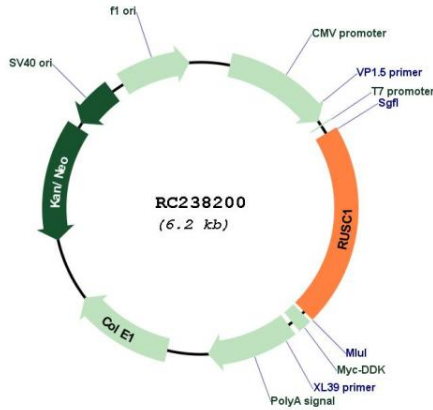
**UniProt ID:** [Q9BVN2](#)

**Cytogenetics:** 1q22

**MW:** 46.6 kDa

**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]

**Product images:**



Circular map for RC238200