

## Product datasheet for SC335872

### RUSC1 (NM\_001278227) Human Untagged Clone

#### Product data:

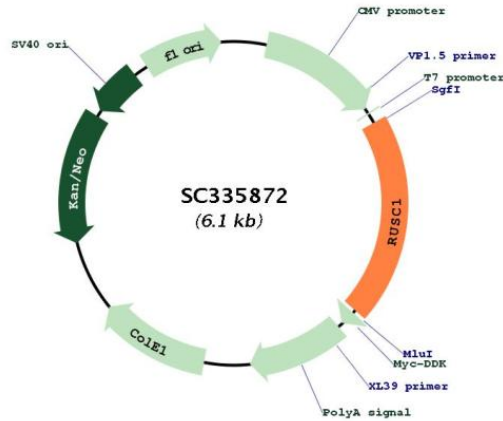
Product Type:	Expression Plasmids
Product Name:	RUSC1 (NM_001278227) Human Untagged Clone
Tag:	Tag Free
Symbol:	RUSC1
Synonyms:	NESCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335872 representing NM_001278227. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGAAGCCAGAGTGGGACTGGTCAGCTGCAGGAGCAGAAGAAAGTCTTCTGATAGCCGTCAGC
GTCTCCGTTGATAAAATCATCTCGCATTTCCGGGCGCCCGAACTTGGTGCAGAAGCCTTCCGGAAG
GACCTCATACCGGGCAGCGCAGGAGCAGCCCTGGAGCGTGGTGGAGGCGTCGGTGAAGCCAGGCTCC
AGCACCCGCTCCCTTGAACCTGTATAGCCAGGTGAGCCGTCTAGCCCCGCTGAGCAGCAGCCGTAGC
CGTTCCATGCCTTTATCCTGGGCTCCTCAACACCAAGCAGTTGGAGCTGTGGTTTTCCAGTCTCCAG
GAAGATGCAGGCTGCTCTCCCTCCTGTACCTGCCAACAGGATTTTCTCCCTGGCCCGGTGGTTGT
CCCTCCCTGTCCACAGAGCTGCTGCTCCTGCTGCAGCCATTGTCCGTTGCTCACTTCCACCTGGACCTG
CTCTTTGAGCACCACCACCTGCCCTGGGCCACCTCAGGCCCTGCCCTCCAGGCCACCTCCA
GCTCTGCAGCAGACTATGCAAGCCATGCTGACTTTGGGGCCGGCTGGCCAGAGCCTTCCGGGGACT
TCCAAGGAAGCTGCTTCCAGCCCTCTGACTCTCAAACCTTCCACACCAGGGAGCTGGTGGGAGCAG
TTGACCCAGGCCCTCCCGGTCTATGCCTCTGGGGCACTGAGGGCTTCTCTTTCCCGATGGGCACCG
GGGCGTCATGGGACTGCAGCTGAAGAAGGTGCACAGGAGAGACCCTGCCACAGATGAGATGGCACCA
GGCAGGGGCTCTGGTTGGGAAGACTATTTGGAGTGCCTGGGGCCCCGAGAAAATGAGAATGGAGCC
CTAAAGTCCAGGAGACCATCTAGCTGGCTGCCCCGACAGTGTGTTGGCTCTGTGAAGCGGGGG
GCACCTCCGAGATGCCTTCTCCTCAGGAGCTTGAGGCCTCAGCACCCAGGATGGTGCAAACCCATAGG
GCAGTGGGGCTCTCTGTGATCACACTGCTGCAAGACCTGACCAGTTGAGCTTCCGGCGTGGGAAGTG
CTGCGTGTATCACACAGTGGATGAGGACTGGCTCCGCTGTGGCGGGATGGCATGGAGGGTCTGGTG
CCTGTGGGTATACCTCCCTTGTCTGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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**Plasmid Map:**


**ACCN:** NM\_001278227

**Insert Size:** 1203 bp

**OTI Disclaimer:** 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).

**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\\_001278227.1](#)

**RefSeq Size:** 2469 bp

**RefSeq ORF:** 1203 bp

**Locus ID:** 23623

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

**Cytogenetics:** 1q22

**MW:** 43.2 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]

Transcript Variant: This variant (5) differs in the 5' UTR and contains multiple differences in the coding region, compared to variant 1. It initiates translation at a downstream in-frame start codon. The encoded isoform (e) is shorter and has a shorter N-terminus, compared to isoform a.