

Product datasheet for **SC108641**

RUSC1 (NM_014328) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RUSC1 (NM_014328) Human Untagged Clone
Tag:	Tag Free
Symbol:	RUSC1
Synonyms:	NESCA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108641 sequence for NM_014328 edited (data generated by NextGen Sequencing)

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ATGGCAGAAGCCAGAGTGGGACTGGTCAGCTGCAGGAGCAGAAGAAAGTCTTCTGATA
GCCGTCAGCGTCTCCGTTGATAAAATCATCTCGCATTTTCGGGGCCGCCCGAACTTGGTG
CAGAAGGCCAGTTGGGTGATAGCCGGCTGAGCCCGGATGTGGGGCACCTGGTGCTGACC
ACCCTCTGCCGGCCCTCCACGCCCTGGTGGCGGACGGGCTGAAGCCTTTCGGAAGGAC
CTCATCACCGGGCAGCGCAGGAGCAGCCCTGGAGCGTGGTGGAGGCGTCGGTGAAGCCA
GGCTCCAGCACCCGCTCCCTTGAACCCGTATAGCCAGGTCAGCCGCTAGCCCCGCTG
AGCAGCAGCCGTAGCCGTTCCATGCCTTATCCTGGGCCTCTCAACACCAAGCAGTTG
GAGCTGTGGTTTTCCAGTCTCCAGGAAGATGCAGGCTGCTCCCTCCTGTACCTGCCA
ACAGGATTTTTCCCTGGCCCCGGTGGTTGTCCCTCCCTGTCCACAGAGCTGTGCTC
CTGCTGCAGCCATTGTCGGTGTCACTTCCACCTGGACCTGCTCTTTGAGCACCACCAC
CACCTGCCCTGGGCCACCTCAGGCCCTGCCCTCCAGGCCACCTCCAGCTCTGCAG
CAGACTATGCAAGCCATGCTGCACTTTGGGGGCCGGTGGCCAGAGCCTTCGGGGGACT
TCCAAGGAAGCTGCTTCAGACCCCTGACTCTCCAAACCTTCCCACACCAGGGAGCTGG
TGGGAGCAGTTGACCCAGGCCTCCCGGGTCTATGCCTCTGGGGGCACTGAGGGCTTCTC
CTTCCCGATGGGCACCGGGGCTCATGGGACTGCAGCTGAAGAAGGTGCACAGGAGAGA
CCCCTGCCACAGATGAGATGGCACCAGGCAGGGGCTCTGGTTGGGAAGACTATTTGGA
GTGCCTGGGGGCCCCGCAGAAAATGAGAAATGGAGCCCTAAAGTCCAGGAGACCATAGC
TGGCTGCCCGACAGTGAAGTGTGTTGGCTCTTGTGAAGCGGGGGCACCTCCCGAGATG
CCTTCTCCTCAGGAGCTTGGGCTCAGCACCCAGGATGGTGCAAACCCATAGGGCAGTG
CGGGCTCTCTGTGATCACACTGCTGCAAGACCTGACCAGTTGAGCTTCCGGCGTGGGGAA
GTGCTGCGTGTATCACCACAGTGGATGAGGACTGGCTCCGCTGTGGCGGGATGGCATG
GAGGGTCTGGTGCCTGTGGGGTATACCTCCCTTGTCTGTAG

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Clone variation with respect to NM_014328.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014328 unedited
 ATTTTGTAAACGACTTCTATAGGGCGGCCGGAATTCGGCACGAGGGTTCGTGGTCTCTCGCCGGTGTCCCGGAGCCAGCGGCTGTGGATGGCAGAAGCCAGAGTGGGACTGGTCAGCTGCAGGAGCAGAAGAAAGGTCTTCTGATAGCCGTACAGCTCTCCGTTGATAAAATCATCTCGCATTTTCGGGGCCCGGAACTTGGTGCAGAAGGCCAGTTGGGTGATAGCCGGCTGAGCCCGGATGTGGGGCACCTGGTGTGACCACCTCTGCCCGCCCTCCACGCCCTGGTGCGGACGGGCTGAAGCCTTTCGGAAGGACCTCATCACGGGCAGCGCAGGAGCAGCCCTGGAGCGTGGTGGAGCGTCCGTGAAGCCAGGCTCCAGCACCCGCTCCCTTGGAAACCCTGTATAGCCAGGTCAGCCGTCTAGCCCCGCTGAGCAGCAGCCGTAGCCGCTTCCATGCCTTTATCCTGGGCCTCCTCAACACCAAGCAGTTGGAGCTGTGGTTNTCCAGTCTCCAGGAAGATGCAGGCCTGCTCTCCCTCCTGTACCTGCCAACAGGATNTTCTCCCTGGCCCGCGGTGGTTGTCCCTCCCTGTCCACAGAGCTGCTGCTCCTGCTGCAGCCATTGTGGTGTCTCACTTCCACCTGGACCTGCTCTTTGAGCACCACCACCCTGCCCTGGGCCACCCTCAGCCCCTGCCCTCCAGCCCACCTNCAGCTCTGCACAACTATGNCAGCATGCTGCACTTTGGGGCCGGCTGGCCANAGCCTTCGNGGGACTCCAGNNAGCTGCTTCAGACCCCTCTGACTCTCAAACCTTCCCACACAGGGAGCTGGTGGGNAGCAGNTGACCCAGCCCTCCGGNNTCTATGCCTCTGGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014328 unedited
 CGCGGCCCAATCTAANATCGAGTTTTTTTTTTTTTTTTTTTCACTCCATACTTTATTGGACAAAGGAGGAAGGATGCAAACCATCACCACAGGCCACCCACCAAGGGTGTCCAGGCTTACAGCACCTAGTACAGCATGAGTGAGTACATTATCAATACAGGCAACTGGGAGGGATGAGTGGGAAAAATCCACACAGGAAGGAGACTAAAGTCTTCTAGGCTTGGGGCTGAGGCATGTATTGACTGGCAGTCCACTTATGGATGAAGAAGGAGGGCTAGATTTCCATTTGCCGATAGATAGGAAGGAAGACATTCCCTTATATATACGGGAAAAAGGAAGGGATTACTGGAGGGCAATTCCTTTTTTATATATTTGGAAGAAAAGCGATTTTACCTTACAGGTGGGTATAGGAGGGAAGAAGGAAAGTTTATTTTAAATATTATCAGAAACAGACGTGGGAAGAAACGTCATTCTGCAAAGGAAAAAGCTTCTGGGATGGTGGTCACTGGCCATTCCATTTCCAGGGGACAGGAAAGAGACCCATACCCCGAAAAGGTTCCAGGGCTACATACCAAGGGGTTCACCCAAAGGCACCAGACCCTCCATGGCCATCCGCGCCCAAGGGAAGGCAGGCCCTCACTCCACTGGGGGATGACACGCCAGGACTTTTCCACCCCGGAAAGTCTAACTGTCAAGGTTTTTTACACATGTGGAACCACAAAAAACCGCCCGCCCTAGGGTTTGGCCCATCCGGGGGTTAAGGCCAACTCCTGAGGAAAGGATCTTTGGAGGGGGCCCCCTTCAAGAAACC AACACCTATTTTTGGGGCAACACCCAAAGAGGCCCGGACTTTAGGGCCCTTTTCTTATTTTTGGGGCGCCCGACCTCCAAAAATTTTCN

Restriction Sites:

NotI-NotI

ACCN:

NM_014328

Insert Size:

1880 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_014328.2](#), [NP_055143.2](#)

RefSeq Size: 2184 bp

RefSeq ORF: 1302 bp

Locus ID: 23623

UniProt ID: [Q9BVN2](#)

Cytogenetics: 1q22

Domains: SH3, RUN

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 (4) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (d) has a shorter N-terminus, compared to isoform a. Variants 1 and 8 encode the same isoform (d).