

Product datasheet for **RC226172**

RUSC1 (NM_001105204) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RUSC1 (NM_001105204) 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:

>RC226172 representing NM_001105204
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTCCCCTCAGAGAGCTTTACTCTGCAACCTCAACCACATCCACCTCCAGCACGTCTCCCTGGGCC
 TGCACTTGTCCCCTGCTGAGCTACAGGAGGGGCTTTGAGCACACCCCTCCTCCAGGAGACTGG
 GGGCAAGGAGAGCAGGGGCCCTGCAGTGGCACCTGGTGGACGCCAATCCAACAGCCAGCTGTGCC
 TGCCGGTGTGCCAGGAGCAGGTCCGGGCTAGAAAACCGCAGGACCCGTACAGGAGGAAGAGGGG
 CTGCTCTCCCTCAGACCAGGCTGCTCCTCACTCAGCTCCTGCTCAGATCTTAGCCCCGATGAGTC
 CCCTGTCTCAGTCTACTTGGGGACCTCCCTGGTATGAGGATGCCACCCCTCAGCCAGTATCATCCC
 CTGGAGCAGGGCTCCCACTGGCTTCCAGAGCCCTGGCACCTGCTACCGGACAGCTTCTGCTGCTCTC
 CTGATTCCTGCTCCGGAGCTTCTTCCACCCGATCCTGGCCTGGACTCGAAGTCAACGCCCTGACCAC
 CTGCCAGGAGCTCCCTCCAGGCTTGGAGGAAGAGGACGAGAGGGCGGAGCAGGATCTCCCTACCTCT
 GAGCTCTTAGAGGCGGATGATGGAAAAATCGACGCTGGGAAAACGAGCCAGTTGGAAGATTAACCCAA
 TTTGAAAATGACACAGAGAAAATAAGCTGAATGGAAAACCACTGAAAACAATAACTGGTTGGAA
 AAACAACGGGAATGTTAACTCTAGCTGGAAAAGTGAACCTGAAAATTCGACTCTGGTTGGAAAACCAAC
 ACAAGAATAACTGATTCTGGCTCGAAAACAGATGCAGGGAAAAATGATGGAGGATGGAGAAGTGACGTCA
 GCGAGGAGCCGGTGGCCACCGGACAATCACGTCTTCCACGAGCTGGCCAGAAGCGCAAGCGGGGCC
 AGGGTGGCCCTGTCCCGCAGGCGAAGAAAGATCGCAGTACTGGCTCATAGTCTTCTCGCCCGACACC
 GAGTCCCCCTCGGGTCCCGGGCGGCTCCTCGGCACCTCCTCGGAAGTCAACACCTCAAGGAAC
 TCCGGTCCCGAAGCCGGGCCAGCCCGCCAGTCCCGCTCGAGACCCCAAGTTGGCTGGCTTTGGT
 CCGGCCCGGCCCCACCCCGCTGTCCCTCCCGAAGGAAGAAGAACCAGCTGGACTGCAGCCATA
 GCGGAGGGGAGTCCGAGGAGGGCCGGGCTGTAGCCAGCGGCTGGCGAGGAGGCCAGCCGGAAGG
 AGCCGGGCGCGCAGGCCGGCTGGAGGTCGTAAGTTCGTGGTCTTCCCGGAGTCCCGGAGCCAGCG
 GCTGTGGATGGCAGAAGCCAGAGTGGGACTGGTCAAGTGCAGGAGCAGAAGAAAGTCTTCTGATAGCC
 GTCAGCGTCTCCGTTGATAAAATCATCTCGATTTCCGGGCGCCCGGAAGTGGTGCAGAAGGCCAGT
 TGGGTGATAGCCGGTGAAGCCGGATGTGGGACCTGGTGTGACCACCTCTGCCGGCCCTCCACGC
 CCTGGTGGCGGACGGCTGAAGCCTTCCGGAAGGACCTCATCACGGGAGCGCAGGAGCAGCCCTGG
 AGCGTGGTGGAGCGTGGTGAAGCCAGGCTCCAGCACCCGCTCCCTTGAACCTGTATAGCCAGGTCA
 GCCGTCTAGCCCGCTGAGCAGCAGCCGTAGCCGCTTCCATGCCTTTATCCTGGGCTCCTCAACCCAA
 GCAGTTGGAGCTGTGGTTTTCCAGTCTCCAGGAAGATGCAGGGAGCTGGTGGGAGCAGTTGACCCAGGCC
 TCCCGGTCTATGCCTCTGGGGCACTGAGGGCTTCTCTTTCCCGATGGGACCCGGGGCGTATGGGA
 CTGCAGCTGAAGAAGGTGCACAGGAGAGACCCCTGCCACAGATGAGATGGCACCAGGCAGGGGCCCTG
 GTTGGGAAGACTATTTGGAGTGCCTGGGGGCCCGCAGAAAAATGAGAATGGAGCCCTAAAGTCCAGGAGA
 CCATCTAGCTGGCTGCCCGCAGTGAAGTGTGGTCTTGTGAAGCGGGGGCACCTCCCGAGATGC
 TTCTCCTCAGGAGCTTGAAGCCTCAGCACCCAGGATGGTCAAAACCATAGGGCAGTGGGGCTCTG
 TGATCACACTGCTGCAAGACCTGACCAGTTGAGCTTCCGGCGTGGGAAGTGTGCGTGTATCACCACA
 GTGGATGAGGACTGGCTCCGCTGTGGCGGATGGCATGGAGGGTCTGGTGCCTGTGGGGTATACCTCC
 TTGTTCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226172 representing NM_001105204
Red=Cloning site Green=Tags(s)

MLSPQRALLCNLNHIHLQHVSGLHLHLSRRPELQEGPLSTPPPPGDTGGKESRGPCSGTLVDANSNSPAVP
CRCCQEHGPGLENRQDPSQEEEGAASPDGCSLSSCSLSPDESPVSVYLRDLPGDEDAHQPQSIIP
LEQGSPLASAGPGTCSPDFCCSPDSCSGASSPDGGLDNCNALTTCQDVPSPGLEEEDERAEQDLPTS
ELLEADDGKIDAGKTEPSWKINPIWKIDTEKTKAEWKTTENNNTGWKNNGNVNSSWKSEPEKFDGSKTN
TRITDSGSKTDAGKIDGGWRSDVSEEPVPHRTITSFHELAQKRKRGPGLPLVPQAKKDRSDWLIVFSPDT
ELPPSGSPGGSSAPPREVTTFKELRSRSRAPAPPVPRDPPVGWALVPPRPPPPVPPRRKKNRPLQPI
AEGQSEEGRAVSPAAGEEAPAAKEPGAQAGLEVRSSWSFAGVPGAQRLWMAEAQSGTGQLQEKKGLLIA
VSVSVDKIIISHFGAARNLVQKAQLGDSRLSPDVGHLLVTLCPALHALVADGLKPFKDLITGQRRSSPW
SVVEASVKPGSSTRSLGTLYSQVSRPLAPLSSSRFHFILGLLNTKQLELWFSSLQEDAGSWEQLTQA
SRVYASGGTEGFPLSRWAPGRHGTAEEGAQERPLPTDEMAPGRGLWLGRLFVPGGPAENENGALKSRR
PSSWLPTVSVLALVKRGAPPEMPSQLEASAPRMVQTHRAVRALCDHTAARPDQLSFRRGEVLRVITT
VDEDWLRGGRDGMGLVPVGYTSLVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_001105204

ORF Size: 2388 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_001105204.2](#)

RefSeq ORF: 2391 bp

Locus ID: 23623

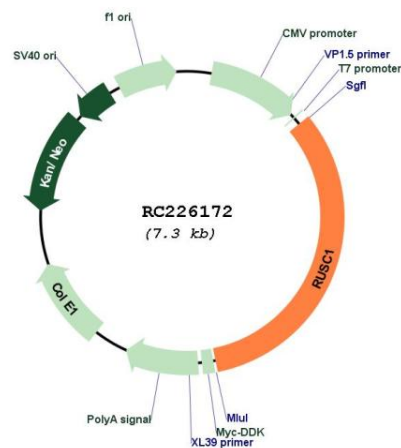
UniProt ID: [Q9BVN2](#)

Cytogenetics: 1q22

MW: 85 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 RC226172