

Product datasheet for **RC237978**

RUSC1 (NM_001278227) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RUSC1 (NM_001278227) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RUSC1
Synonyms:	NESCA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237978 representing NM_001278227 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGAAGCCCAGAGTGGGACTGGTCTGAGCTGCAGGAGCAGAAGAAAGGTCTTCTGATAGCCGTCAGCG
TCTCCGTTGATAAAATCATCTCGCATTTTCGGGGCCGCCGGAACCTGGTGCAGAAGCCTTTCGGGAAGGA
CCTCATACCGGGCAGCGCAGGAGCAGCCCTGGAGCGTGGTGGAGGCGTGGTGAAGCCAGGCTCCAGC
ACCCGCTCCCTTGAACCTGTATAGCCAGGTCAGCCGCTAGCCCGCTGAGCAGCAGCCGTAGCCGCT
TCCATGCCTTTATCCTGGGCTCCTCAACCAAGCAGTTGGAGCTGTGGTTTTCCAGTCTCCAGGAAGA
TGCAGGCTGCTCTCCCTCCTGTACCTGCCAACAGGATTTTTCTCCCTGGCCCGCGGTGGTGTCCCTCC
CTGTCCACAGAGCTGCTGCTCCTGCTGCAGCCATTGTCGGTGTCACTTCCACCTGGACCTGCTCTTTG
AGCACCACCACCTGCCCTGGGCCACCTCAGGCCCTGCCCTCCAGGCCACCTCCAGCTCTGCA
GCAGACTATGCAAGCCATGCTGCACTTTGGGGCCGGCTGGCCAGAGCCTTCGGGGACTTCCAAGGAA
GCTGCTTCAGACCCCTGACTCTCAAACCTTCCACACCAGGAGCTGGTGGGAGCAGTTGACCCAGG
CCTCCCGGTCTATGCCCTGGGGCAGTGGGGCTTTCTCTTCCCGATGGGCACCGGGCGTCATGG
GACTGCAGCTGAAGAAGTGCACAGGAGAGACCCCTGCCACAGATGAGATGGCACCAGGACAGGGCCTC
TGTTGGGAAGACTATTTGGAGTGCCTGGGGCCCGCAGAAAATGAGAATGGAGCCCTAAAGTCCAGGA
GACCATCTAGCTGGCTGCCCGGACAGTGTGTTGGCTCTTGTGAAGCGGGGGCACCTCCCGAGAT
GCCTTCTCCTCAGGAGCTTGGGCTCAGCACCAGGATGGTGAACCCATAGGACAGTGGGGCTCTC
TGTGATCACACTGCTGCAAGACCTGACCAGTTGAGCTTCCGGCTGGGGAAGTGTGCGTGCATCACCA
CAGTGGATGAGGACTGGCTCCGCTGTGGCGGGATGGCATGGAGGTCTGGTGCCTGTGGGTATACCTC
CCTTGTCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237978 representing NM_001278227
 Red=Cloning site Green=Tags(s)

MAEAQSGTGQLQEKKGLLIAVSVSVDKIIISHFGAARNLVQKPFKDLITGQRRSSPWSVVEASVKPGSS
 TRSLGTLYSQVSR LAPLSSSRSRFHAFILGLLNTKQLELWFSSLQEDAGLLSLLYLPTGFFSLARGGCPS
 LSTELL LLLQPLSVLTFHLDLLFEHHHLPLGPPQAPAPPGPPALQQTMQAMLHFGRLAQSLRGTSKE
 AASDPSPNLPPTPGSWWEQLTQASRVYASGGTEGFPLSRWAPGRHGTAEEGAQERPLPTDEMAPGRGL
 WLGR LFGVPGGAENENGALKSRPSSWLPPTVSVLALVKRGAPPEMSPQELEASAPRMVQTHRAVRAL
 CDHTAARPDQLSFRRGEVLRVITTVDEDLRCGRDGMGLVPGVYTSVLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

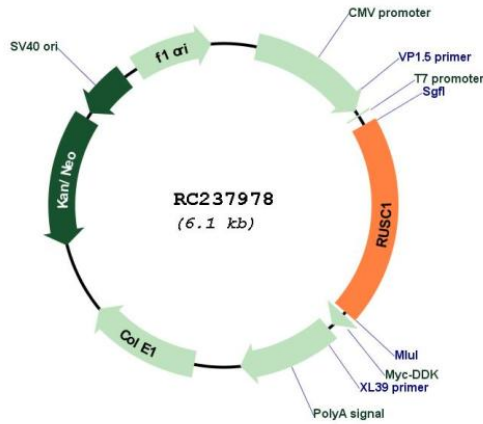
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278227

ORF Size:	1200 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:	<ol style="list-style-type: none">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 , NP_001265156.1
RefSeq Size:	2469 bp
RefSeq ORF:	1203 bp
Locus ID:	23623
UniProt ID:	Q9BVN2
Cytogenetics:	1q22
MW:	43.7 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]