

Product datasheet for **RG237464**

RUSC1 (NM_001278229) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RUSC1 (NM_001278229) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RUSC1
Synonyms:	NESCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237464 representing NM_001278229. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGAAGCCAGAGTGGGACTGGTCAGCTGCAGGAGCAGAAGAAAGGTCTTCTGATAGCCGTCAGC
GTCTCCGTTGATAAAATCATCTCGCATTTCCGGGGCCGCCGGAACCTTGGTGCAGAAGGCCAGTTGGGT
GATAGCCGGCTGAGCCCGGATGTGGGGCACCTGGTGTGACCACCCTCTGCCCGGCCCTCCACGCCCTG
GTGGCGGACGGGCTGAAGCCTTCCGGAAGGACCTCATCACCAGGAGCAGCAGGAGCAGCCCTGGAGC
GTGGTGGAGGCGTCGGTGAAGCCAGGCTCCAGCACCCGCTCCCTTGAACCTGTATAGCCAGGTCAGC
CGTCTAGCCCCGCTGAGCAGCAGCCGTAGCCGCTTCCATGCCTTTATCCTGGGCCTCCTCAACCAAG
CAGTTGGAGCTGTGGTTTTCCAGTCTCCAGGAAGATGCAGGGAGCTGGTGGGAGCAGTTGACCCAGGCC
TCCCGGTCTATGCCTCTGGGGGCACTGAGGGCTTTCCTCTTCCCGATGGGCACCGGGGCGTCATGGG
ACTGCAGCTGAAGAAGGTGCACAGGAGAGACCCCTGCCACAGATGAGATGGCACCAGGCAGGGGCCCTC
TGGTTGGGAAGACTATTTGGAGTGCCTGGGGGCCCCGAGAAAATGAGAAATGGAGCCCTAAAGTCCAGG
AGACCATCTAGCTGGCTGCCCGGACAGTGAAGTGTGTTGGCTCTTGTGAAGCGGGGGCACCTCCCGAG
ATGCCTTCTCCTCAGGAGCTTGAAGCCTCAGCACCCAGGATGGTGCAACCCATAGGGCAGTGCCGGCT
CTCTGTGATCACACTGCTGCAAGACCTGACCAGTTGAGCTTCCGGCGTGGGAAGTGTGCGTGTATC
ACCACAGTGGATGAGGACTGGCTCCGCTGTGGCGGGATGGCATGGAGGGTCTGGTGCCTGTGGGGTAT
ACCTCCCTTGTCTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237464
 Blue=ORF Red=Cloning site Green=Tag(s)

MAEAQSGTGQLQEQQKGLLIIVSVSVDKIISHFGAARNLVQKAQLGDSRLSPDVGHLVLTTLCPALHAL
 VADGLKPFKDLITGQRRSSPWSVVEASVKPGSSTRSLGTLYSQVSRAPLSSSRSRFHAFILGLLNTK
 QLELWFFSSLQEDAGSWEQLTQASRVYASGGTEGFPLSRWAPGRHGTAEEGAQERPLPTDEMAPGRGL
 WLGRLFGVPGGPAENENGALKSRPPSSWLPPTVSVLALVKRGAPPEMPPSPQLEASAPRMVQTHRAVRA
 LCDHTAARPDQLSFRRGEVLRVITTVDEDWLRGGRDGMGLVPVGYTSLVL
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001278229

ORF Size: 981 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).

RefSeq: [NM_001278229.1](#), [NP_001265158.1](#)

RefSeq Size: 2250 bp

RefSeq ORF: 984 bp

Locus ID: 23623

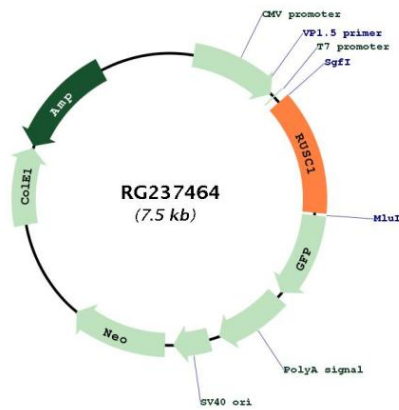
UniProt ID: [Q9BVN2](#)

Cytogenetics: 1q22

MW: 35.8 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 RG237464