

Product datasheet for **RG225846**

RUSC1 (NM_001105205) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RUSC1 (NM_001105205) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG225846 representing NM_001105205
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGCCACGTGCTCCCCGGGGTCCGCAGGCAGGACTGGCCCGGGGGCGGTGCGCTGGGCTGCACC
 TCCTCCCGCGCCCGTCTCTCCCGCCTACAGGCCCTAGCAGGGCAGCGGGAGTCCGTAGTTCGTG
 GTCCTTCGCCGGTGTCCCGGAGCCAGCGGCTGTGGATGGCAGAAGCCAGAGTGGGACTGGTCAGCTG
 CAGGAGCAGAAGAAAGTCTTCTGATAGCCGTACGCGTCTCCGTTGATAAAATCATCTCGCATTCGGGG
 CCGCCCGAACTTGGTGCAGAAGGCCAGTTGGGTGATAGCCGGCTGAGCCCGGATGTGGGGCACCTGGT
 GCTGACCACCTCTGCCCGCCCTCCACGCCCTGGTGGCGGACGGGCTGAAGCCTTTCGGGAAGGACCTC
 ATACCGGGCAGCGCAGGAGCAGCCCTGGAGCGTGGTGGAGGCGTGGTGAAGCCAGGCTCCAGCACCC
 GCTCCCTTGAACCTGTATAGCCAGGTCAGCCGTCTAGCCCGCTGAGCAGCAGCCGTAGCCGCTTCCA
 TGCTTTATCCTGGCCCTCTCAACACCAAGCAGTTGGAGCTGTGTTTTCCAGTCTCCAGGAAGATGCA
 GGCTGCTCTCCCTCTGTACCTGCCAACAGGATTTTTCTCCCTGGCCCGCGGTGTTGTCCCTCCCTGT
 CCACAGAGCTGCTGCTCCTGCTGCAGCCATTGTCGGTGTCACTTCCACCTGGACTGCTCTTTGAGCA
 CCACCACCACCTGCCCTGGGCCACCTCAGGCCCTGCCCTCCAGGCCACCTCCAGCTCTGCAGCAG
 ACTATGCAAGCCATGCTGCATTTGGGGCCGGCTGGCCAGAGCCTTCGGGGGACTTCCAAGGAAGCTG
 CTTAGACCCCTGACTCTCAAACCTTCCACACCAGGGAGCTGGTGGGAGCAGTTGACCCAGGCCTC
 CCGGTCTATGCCTCTGGGGGACTGAGGGCTTCTCTTTCCGATGGGCACCGGGGCGTCATGGGACT
 GCAGCTGAAGAAGTGCACAGGAGAGACCCCTGCCACAGATGAGATGGCACCAGGCAGGGGCTCTGGT
 TGGGAAGACTATTTGGAGTCCCTGGGGCCCGCAGAAAATGAGAAATGGAGCCCTAAAGTCCAGGAGACC
 ATCTAGCTGGCTGCCCGGACAGTGAAGTGTGGTCTTGTGAAGCGGGGGCACCTCCCGAGATGCCT
 TCTCTCAGGAGCTTGAAGCCTCAGCACCCAGGATGGTGCAAACCCATAGGGCAGTGCAGGCTCTGTG
 ATCACACTGCTGCAAGACCTGACCAAGTGTGACTTCCGGCGTGGGAAGTGTGCTGCTCATCACACAGT
 GGATGAGGACTGGCTCCGCTGTGGGCGGGATGGCATGGAGGGTCTGGTGCCTGTGGGGTATACCTCCCT
 GTTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG225846 representing NM_001105205
 Red=Cloning site Green=Tags(s)

MPPTCSPGLRRQDWAPGRCAGLHLPAPRSPALQALAGQAGVRSWSFAGVPGAQRLWMAEAQSGTGQL
 QEQQKGLLIIVSVSVDKIISHFGAARNLVQKAQLGDSRLSPDVGHVLTTLCPALHALVADGLKPFKDL
 ITGQRRSSPWSVVEASVKPGSSTRSLGTLYSQVSRPLAPLSSSRSRFHAFILGLLNTKQLELWFSLLQEDA
 GLLSLLYLPTGFFSLARGCPSLSTELLQPLSVLTFHLDLLFEHHHHLPLGPPQAPAPPPPPALQQ
 TMQAMLHFGGRLAQSLRGTKEAASDPSPNLPTPGSWWEQLTQASRVYASGGTEGFPLSRWAPGRHGT
 AAEEGAQERPLPTDEMAPGRGLWLGRLFGVPGPAENENGALKSRRPSSWLPTVSVLALVKRGAPPEMP
 SPQELEASAPRMVQTHRAVRALCDHTAARPDQLSFRRGEVLRVITTVDEDWLRCDGRDMEGLVPVGYTSL
 VL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001105205

ORF Size: 1476 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_001105205.1](#), [NP_001098675.1](#)

RefSeq Size: 2525 bp

RefSeq ORF: 1479 bp

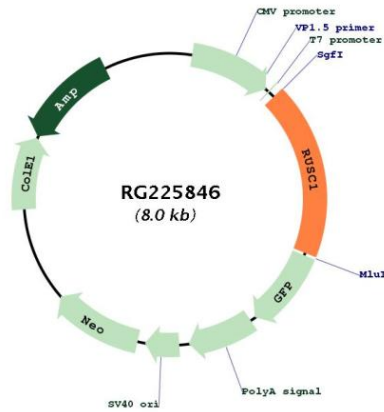
Locus ID: 23623

UniProt ID: [Q9BVN2](#)

Cytogenetics: 1q22

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 RG225846