

Product datasheet for **RG200243**

RUSC1 (NM_014328) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | RUSC1 (NM_014328) 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: | >RG200243 representing NM_014328 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGAAGCCAGAGTGGGACTGGTCAGCTGCAGGAGCAGAAGAAAGGTCTTCTGATAGCCGTACGG
TCTCCGTTGATAAAATCATCTCGCATTCGGGGCCGCCGGAACCTGGTGCAGAAGGCCAGTTGGGTGA
TAGCCGGCTGAGCCGGATGTGGGCACCTGGTGTGACCACCCTCTGCCGGCCCTCCACGCCCTGGT
GCGGACGGGTGAAGCCTTCCGGAAGGACCTCATCCCGGCAGCGCAGGAGCAGCCCCGGAGCGTGG
TGGAGGCGTCGGTGAAGCCAGGCTCCAGCACCCGCTCCCTTGAACCCTGTATAGCCAGGTCAGCCGTCT
AGCCCCGCTGAGCAGCAGCCGTAGCCGCTTCCATGCCTTTATCCTGGGCCCTCAACACCAAGCAGTTG
GAGCTGTGGTTTTCCAGTCTCCAGGAAGATGCAGGCCTGCTCCTCCTGTACCTGCCAACAGGATTTT
TCTCCTGGCCCGCGGTGGTGTCCCTCCTGTCCACAGAGCTGTGCTCCTGCTGCAGCCATTGTCGGT
GCTCACTTCCACCTGGACCTGCTTTGAGCACCACCACCACCTGCCCTGGGCCACCTCAGGCCCT
GCCCTCCAGGCCACCTCCAGCTCTGCAGCAGACTATGCAAGCCATGCTGCACTTTGGGGCCGGCTGG
CCCAGAGCCTTCGGGGGACTTCCAAGGAAGCTGCTTCAGACCCCTCTGACTCTCCAAACCTTCCCACACC
AGGGAGCTGGTGGGAGCAGTTGACCCAGGCCTCCCGGTCTATGCCTCTGGGGGCACTGAGGGCTTTCCT
CTTCCCAGTGGCACCAGGGGCGTCATGGGACTGCAGCTGAAGAAGGTGCACAGGAGACCCCTGCCCA
CAGATGAGATGGCACCAGGCGGGCCTCTGGTTGGGAAGACTATTTGGAGTGCCTGGGGGCCCGCGAGA
AAATGAGAATGGAGCCCTAAAGTCCAGGAGACCATCTAGCTGGCTGCCCCGACAGTGAGTGTGTTGGCT
CTTGTGAAGCGGGGGCACCTCCCGAGATGCCTTCTCCTCAGGAGCTTGGGCTCAGCACCCAGGATGG
TGCAAACCCATAGGGCAGTGCAGGCTCTCTGTGATCACACTGCTGCAAGACCTGACCAGTTGAGCTTCCG
GCGTGGGAAAGTGTGCGTGTATCACACAGTGGATGAGGACTGGCTCCGCTGTGGCGGGATGGCATG
GAGGCTGTGGTGCCTGTGGGTATACCTCCCTGTTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200243 representing NM_014328
 Red=Cloning site Green=Tags(s)

MAEAQSGTGQLQEQQKGLLIIAVSVSVDKIIISHFGAARNLVQKAQLGDSRLSPDVGHVLVLTTLCPALHALV
 ADGLKPFKDLITGQRRSSPWSVVEASVKPGSSTRSLGTLYSQVSRLAPLSSSRSRFHAFILGLLNTKQL
 ELWFSSLQEDAGLLSLLYLPTGFFSLARGGCPSLSTELLLLLLQPLSVLTFHLDLLFEHHHHLPLGPPQAP
 APPGPPPALQQTMQAMLHFGGRLAQSLRGTSKEAASDPSPNLPTPGSWWEQLTQASRVYASGGTEGFP
 LSRWAPGRHGTAEEGAQERPLPTDEMAPGRGLWLGRFLGVPGGPAENENGALKSRPSSWLPTTVSVLA
 LVKRGAPPEMPSPQELEASAPRMVQTHRAVRALCDHTAARPDQLSFRRGEVLRVITTVDEDWLRRCGRDGM
 EGLVPVGYTSLVL

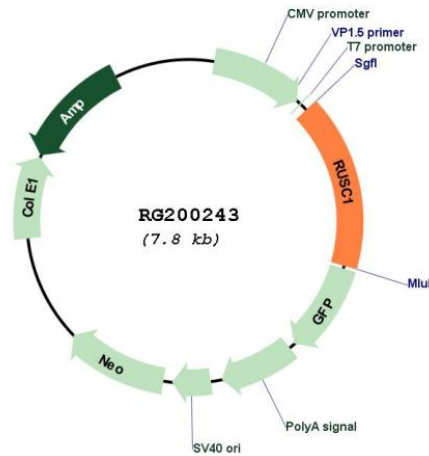
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_014328

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|-------------------------------|--|
| ORF Size: | 1299 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_014328.4 |
| 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] |