

Product datasheet for **RG226251**

RUSC1 (NM_001105203) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RUSC1 (NM_001105203) 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:

>RG226251 representing NM_001105203
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTCCCCTCAGAGAGCTTTACTCTGCAACCTCAACCACATCCACCTCCAGCACGTCTCCCTGGGCC
 TGCACTTGTCCCCTGCTGAGCTACAGGAGGGCCTTTGAGCACACCCCTCCTCCAGGAGACTGG
 GGGCAAGGAGAGCAGGGGCCCTGCAGTGGCACCTGGTGGACGCCAATCCAACAGCCAGCTGTGCC
 TGCCGGTGTGCCAGGAGCACGGTCCGGCCCTAGAAAACCGCAGGACCCGTACAGGAGGAAGAGGGGG
 CTGCCTCTCCCTCAGACCAGGCTGCTCCTCACTCAGCTCCTGCTCAGATCTTAGCCCCGATGAGTC
 CCCTGTCTCAGTCTACTTGCAGGACCTCCCTGGTATGAGGATGCCACCCCTCAGCCAGTATCATCCCC
 CTGGAGCAGGGCTCCCCACTGGCTTCCAGAGCCCTGGCACCTGCTACCGGACAGCTTCTGCTGCTCTC
 CTGATTCCTGCTCCGGAGCTTCTTCCACCCGATCCTGGCCTGGACTCGAAGTCAACGCCCTGACCAC
 CTGCCAGGACGTCCCTTCCCAGGCTTGGAGGAAGAGGACGAGAGGGCGGAGCAGGATCTCCCTACCTCT
 GAGCTCTTAGAGGCGGATGATGGAAAAATCGACGCTGGGAAAACGAGCCAGTTGGAAGATTAACCCAA
 TTTGAAAAATGACACAGAGAAAATAAAGCTGAATGGAAAACCACTGAAAAAATAAAGTGGTTGGAA
 AAACAACGGGAATGTTAACTCTAGCTGGAAAAGTGAACCTGAAAAATTCGACTCTGGTTGGAAAACCAAC
 ACAAGAATAACTGATTCTGGCTCGAAAACAGATGCAGGGAAAAATTGATGGAGGATGGAGAAGTGACGTCA
 GCGAGGAGCCGGTGGCCACCGGACAATCACGTCTTCCACGAGCTGGCCAGAAGCGCAAGCGGGGCC
 AGGGTGGCCCTTGTCCCGCAGGCGAAGAAAGATCGCAGTACTGGCTCATAGTCTTCTCGCCCGACACC
 GAGTCCCCCTCGGGTTCGCCGGCGCTCCTCGGCACCTCCTCGGAAGTACCACCTTCAAGGAAC
 TCCGGTCCGAGCCGGGCCCCAGCCCGCCAGTCCCGCTCGAGACCCCAAGTGGTGGGCTTTGGT
 CCGGCCCGGCCCCACCCCGCTGTCCTCCCGAAGGAAGAAGAACCAGCTGGACTGCAGCCATA
 GCGGAGGGGAGTCCGAGGAGGGCCGGGTGTACGCCAGCGGTGGCGAGGAGGCCACGCCGGAAGG
 AGCCGGGCGCGCAGGCCGGCTGGAGGTCGATTCGTGGTCTTCCCGGTGTCCCGGAGCCAGCG
 GCTGTGGATGGCAGAAGCCAGAGTGGGACTGGTCACTGCAGGAGCAGAAGAAAGTCTTCTGATAGCC
 GTCAGCGTCTCCGTTGATAAAATCATCTCGATTTCCGGGCGCCCGAACTTGGTGCAGAAGGCCAGT
 TGGGTGATAGCCGGTGAAGCCGATGTGGGCACCTGGTGTGACCACCTCTGCCCGCCCTCCACGC
 CCTGGTGGCGGACGGCTGAAGCCTTCCGGAAGGACCTCATACCGGGCAGCGAGGAGCAGCCCTGG
 AGCGTGGTGGAGCGTGGTGAAGCCAGGCTCCAGCACCCGCTCCCTTGAACCTGTATAGCCAGGTCA
 GCCGTCTAGCCCCGTGAGCAGCAGCCGTAGCCGCTTCCATGCCTTTATCCTGGGCTCCTCAACACCAA
 GCAGTTGGAGCTGTGGTTTTCCAGTCTCCAGGAAGATGCAGGCCTGCTCTCCCTCCTGTACCTGCCAACA
 GGATTTTTCTCCCTGGCCCGGGTGGTTGTCCCTCCCTGTCCACAGAGCTGCTGCTCCTGCTGCAGCCAT
 TGTCCGGTCTCACTTCCACCTGGACCTGCTCTTTGAGCACACCACCACCTGCCCTGGGCCACCTCA
 GGCCCTGCCCTCCAGGCCACCTCCAGCTCTGCAGCAGACTATGCAAGCCATGCTGCACTTTGGGGG
 CGGCTGGCCAGAGCCTTCGGGGACTTCCAAGGAAGTGTTCAGACCCCTCTGACTCTCCAAACCTTC
 CCACACCAGGGAGCTGGTGGGAGCAGTTGACCCAGGCCTCCGGGTCTATGCCTTGGGGCACTGAGGG
 CTTTCTCTTTCCGATGGGCACCGGGGCTCATGGACTGCAGCTGAAGAAGGTGCACAGGAGAGACCC
 CTGCCACAGATGAGATGGCACCCAGCAGGGGCTCTGGTTGGGAAGACTATTTGAGTGCCTGGGGGCC
 CCGCAGAAAATGAGAATGGAGCCCTAAAGTCCAGGAGACCATCTAGCTGGCTGCCCCGACAGTGTGT
 GTTGGCTCTTGTGAAGCGGGGGCACCTCCCGAGATGCCTTCTCCTCAGGAGCTTGAAGCCTCAGCACCC
 AGGATGGTCAAACCCATAGGGCAGTGGGGCTCTCTGTGATCACACTGCTGCAAGACCTGACAGTTGA
 GCTTCCGGCGTGGGAAGTGTGCGTGTATCACACAGTGGATGAGGACTGGCTCCGCTGTGGCGGGGA
 TGGCATGGAGGTCTGGTGCCTGTGGGTATACCTCCCTGTTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**

Protein Sequence: >RG226251 representing NM_001105203
 Red=Cloning site Green=Tags(s)

MLSPQRALLCNLNHIHLQHVSGLHLRRPELQEGPLSTPPPPGDTGGKESRGPCSGTLVDANSNPAVP
 CRCCQEHGPGLENRQDPSQEEEGAASPDGCSSSLSSCDLSPDESPVSVYLRDLPGDEDAHQPSSIIP
 LEQGSPLASAGPGTCSPDFCCSPDSCSGASSPDPGLDNCNALTTCQDVPSPGLEEEDERAQDLPTS
 ELLLEADDGKIDAGKTEPSWKINPIWKIDTEKTKAEWKTENNNTGWKNGNVNNSWKSEPEKFDGWKTN
 TRITDSGSKTDAGKIDGGWRSDVSEEPVPHRTITSFHELAQKRKRGPGLPLVPQAKKDRSDWLIVFSPDT
 ELPPSGSPGGSSAPPREVTTFKELRRSRAPAPPVPRDPPVGWALVPPRPPPPVPPRRKKNRPLQPI
 AEGQSEEGRAVSPAAGEEAPAAKEPGAQAGLEVRSWSFAGVPGAQRLWMAEAQSGTGQLQEKKGLLIA
 VSVSVDKIIISHFGAARNLVQKAQLGDSRLSPDVGHLVLTTLCPALHALVADGLKPFKDLITGQRRSSPW
 SVVEASVKPGSSRSLGTLYSQVSRAPLSSRSRHFHAFILGLLNTKQLELWFSLQEDAGLLSLLYLP
 GFFSLARGGCPSTELLLLLQPLSVLTFHLDLLFEHHHHLPLGPPQAPAPPGPPALQQTMOAMLHFGG
 RLAQSLRGTSKAASDPSPNLPPTGSSWWEQLTQASRVYASGGTEGFPLSRWAPGRHGTAEEGAQERP
 LPTDEMAPGRGLWLRGLFGVPGGPAENENGALKSRPPSSWLPTVSVLALVKGAPPEMPSQLEASAP
 RMVQTHRAVRALCDHTAARPDQLSFRRGEVLRVITTVDEDWLRGGRDGMGLVPVGYTSLVL

TRTRPLE - GFP Tag - V

Restriction Sites:

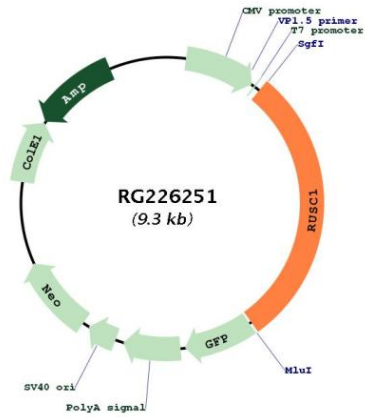
SgfI-MluI

Cloning Scheme:



ACCN:	NM_001105203
ORF Size:	2706 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_001105203.2
RefSeq Size:	3503 bp
RefSeq ORF:	2709 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 RG226251