

Product datasheet for **MG206880**

Rusc1 (NM_028188) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rusc1 (NM_028188) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rusc1
Synonyms:	2210403N08Rik; AA408288; NESCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206880 representing NM_028188 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGAAGCCCAGAGTGGGACTGGCCAGCTGCAGGAGCAGAAGAAAGGTCTCCTGATAGCTGTCAGCG
CTTCAGTGGACAAAATCATCTCGCATTTTGGGGCTGCTAGGAACCTGGTTCAGAAGGCTCAATTGGGGGA
TAGCCGACTGAGCCAGATGTGGGCATCTGGTATTGACCACCCTGCCCCGCCCTCCATGCTTTGGTG
GCTGATGGGCTGAAGCCATTCGGAAGGACCTCATCACTGGACAGCGGAGGAGCAGCCCTGGAGTGTGG
TGGAGGCATCTGTAAACCAGGTTCTGCACACATTCGATGGGATCTCTGTACAGCCAGGTCAGCCGACT
GGCCCTCTGAGTAGCAGCCGACGCCGCTTCCAGCCTTCATCCTGGGCCCTCAACACCAAACAGTTG
GAACTGTGGTTTTCCAGCCTCCAGGAGGATGCAGGCCTACTGTCCCTCTTGTATCTGCCACCGATTCT
TCTCCCTGGCTCGTGGTAGCTGTCCATCCCTGGCTACAGAGCTGTGCTTCTGCTGCAGCCACTGTCCGT
GCTCACCTTCCACTGGACCTGCTTTTGGACCACCACCACCTACCCGTGGGCTGCAGCAGGCTCCT
GCCCTTCATGCCCCCTCCCGCCTCCAGCAGACTATGCAGGCTGTGCTGCACTGGGGGAAACGTTTGG
CTCAGAGTCTCCGAGGGACTTCAGGGGAGAGCACTACAGACTCTCAACCCCTTCAGCACGCCCTCCAGC
AGGCAGTTGGTGGGATCAGCTGACCCAGGCTTCTCGGTCTATGCCTCTGGAGGCACTGAGGGCTCCCT
CTTCTCCGTGGGACCCAGGCGTCATGGAACACAGCTGAGGCGGCACAGGAGCACCTCCGCCACGG
AACAAACACACCAGGCAGAAGCGTGTGGTTGGGGCGGCTATTTGGTGTGCCTGGGTGCCCTCAGAAAC
TGAGAGTGGCGCCTTCAAGTCTAGGAGACCATCCAGCTGGTTGCCCAACAGTAAGTGTGCTGGCTCTG
GTGAAGAGGGGACACCTCCTGAGACTCCTCCTGAGGCGTTGTGAGCTCACCAGGCAGCGTGGTGCAGG
CTGACAGGGCAGTCCGGGCTCTCTGTGACCACACTGCTGCAGGACCTGACCAATTGAGCTTCCAGCGTGG
GGAATTGCTTCGAGTCATTGCCACAGTGGATGAAGACTGGCTTCGCTGTGGGCGGGATGGTGTGGAGGGA
CTGGTGCCCGTGGGATACACTTCCCTTGTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206880 representing NM_028188
 Red=Cloning site Green=Tags(s)

MAEAQSGTGQLQEQQKGLLIIAVSASVDKIIISHFGAARNLVQKAQLGDSRLSPDVGHLLVLTTLCPALHALV
 ADGLKPFKDLITGQRRSSPWSVVEASVKPGSCTHSMGSLYSQVSR LAPLSSSRSRFHAFILGLLNTKQL
 ELWFSSLQEDAGLLSLLYLPTGFFSLARGSCPSLATELLLLLQPLSVLTFHLDLLFEHHHHLPVGLQQAP
 APSCPPPALQQTMQAVLHWGERLAQSLRGTSGESTTDSSTPSARPPAGS WWDQLTQASRVYASGGTEGFP
 LLRWGPRRHGTTAEAAQEAPPPTEQTTGPRSVWLGRLFVPGCPSETESGAFKSRPSSWLPPTVSVLAL
 VKRGTPTPETPPEALVSSPGSVVQADRAVRALCDHTAAGPDQLSFQRGELLRVIATVDEDWLCRGRDGVVEG
 LVPVGYTSLVL

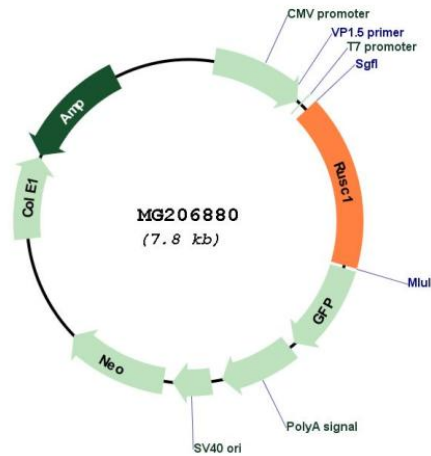
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_028188

ORF Size:	1293 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_028188.1 , NP_082464.1
RefSeq Size:	3799 bp
RefSeq ORF:	3093 bp
Locus ID:	72296
UniProt ID:	Q8BG26
Cytogenetics:	3 F1
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]