

## Product datasheet for **RG206471**

### **RGS3 (NM\_134427) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RGS3 (NM_134427) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RGS3
Synonyms:	C2PA; RGP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG206471 representing NM\_134427  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACCGCTTCAATGGGCTCTGCAAGGTGTGCTCGGAGCGCCGCTACCGCCAGATCACCATCCCGAGGG  
 GAAAGGACGGCTTTGGCTTCACCATCTGCTGCGACTCTCCAGTTCGAGTCCAGGCCGTGGATTCCGGGGG  
 TCCGGCGGAACGGGCAGGGCTGCAGCAGCTGGACACGGTCTGCAGCTGAATGAGAGGCCTGTGGAGCAC  
 TGGAAATGTGTGGAGCTGGCCACGAGATCCGGAGCTGCCCCAGTGAGATCATCTACTCGTGTGGCGCA  
 TGGTCCCCAGGTCAAGCCAGGACCAGATGGCGGGTCTGCGCGGGCCTCTGCAAGTCGACACATGA  
 CCTCCAGTCAACCCCAACAAACGGGAGAAGAAGTGCACCCATGGGGTCCAGGCACGGCCTGAGCAGCGC  
 CACAGCTGCCACCTGGTATGTGACAGCTCTGATGGGCTGTGCTCGGCGGCTGGGAGCGCTACACCGAGG  
 TGGCCAAGCGCGGGGCCAGCACACCCTGCCTGCACTGTCCCGTGCCTGCCCCACCGACCCCAACTA  
 CATCATCTGGCCCCGCTGAATCTGGGAGCCAGCTGCTCCGGCCTGTGTACCAGGAGGATACCATCCCC  
 GAAGAATCAGGGAGTCCCAGTAAAGGGAAGTCTACACAGGCCTGGGGAAGAAGTCCCAGGCTGATGAAGA  
 CAGTGCAGACCATGAAGGGCCACGGGAAGTACAAAAGTCCCGGTTGTGAGGCCGATGCCACGCACTC  
 AAGCTATGGCACCTACGTCAACCTGGCCCCAAAGTCTGGTGTCCCTGTCTTTGTTACGCTCTAGAT  
 CTCTGTAATCCTGCCCGACCTCCTGTGTCAGAGGAGCTGTGCTGTATGAAGGGAGGAACAAGGCTG  
 CCGAGGTGACACTGTTTGCTATTCGGACCTGTGCTCTTACCAAGGAGGACGAGCCTGGCCGCTGCGA  
 CGTCTGAGGAACCCCTCTACCTCCAGAGTGTGAAGTGCAGGAAGGTTCTTCAAGAACCTGAAATTC  
 TGCGTGTCTATCTAGCAGAGAAGGCAGAGTGTATTCACTTTGGAAGCGCACTCGCAGGAGCAGAAGA  
 AGAGGTGTGCTGGTGCCTGTGCGAGAACATCGCAAGCAGCAACAGCTGGCAGCATCACCCCGGCG  
 CAAGATGTTTGAGACGGAGGCAGATGAGAAGAGGGAGATGGCCTTGGAGGAAGGGAAGGGCCTGGTGCC  
 GAGGATCCCCACCCAGCAAGGAGCCCTCTCTGGCCAGGAGCTTCTCCAGGACAAGACCTTCCACCCA  
 GCAAGGACTCCCCTTCTGGGCAGGAACCCGCTCCAGCCAAGAACCAGTGTCCAGCAAAGACTCAGCTAC  
 CTCTGAAGGATCCCCTCCAGGCCAGATGCTCCGCCAGCAAGGATGTGCCACCATGCCAGGAACCCCT  
 CCAGCCCAAGACCTCTCACCTGCCAGGACCTACCTGCTGGTCAAGAACCCTGCCTCACAGGACCCCTC  
 TACTACCAAAGACCTCCCTGCCATCCAGGAATCCCCACCCGGGACCTTCCACCCTGTCAAGATCTGCC  
 TCCTAGCCAGGTCTCCCTGCCAGCAAGGCCCTTACTGAGGACACCATGAGCTCCGGGGACCTACTAGCA  
 GCTACTGGGGACCCACCTGCGGCCCCAGGCCAGCCTTCTGTGATCCCTGAGGTCCGGCTGGATAGCACCT  
 ACAGCCAGAAGGCAGGGGCAGAGCAGGGCTGCTCGGGAGATGAGGAGGATGCAGAAGAGGCCGAGGAGGT  
 GGAGGAGGGGGAGGAAGGGGAGGAGGACGAGGATGAGGACACCAGCGATGACAACCTACGGAGAGCGCAGT  
 GAGGCCAAGCGCAGCAGCATGATCGAGACGGGCCAGGGGGCTGAGGGTGGCCTCTCACTGCGTGTGAGCA  
 ACTCGTGTGCGGCCCGGACGCACAGCGAGGGCAGCCTGCTGCAGGAGCCCGAGGGCCCTGCTTTGCCCTC  
 CGACACCACCTTGCACTGCTCAGACGGTGGGGCGCCGCTCCACCTGGGGCATGCCTTCGCCCAGCACC  
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 AGATGAGCGGGGCTGACACCGTTGGGGATGATGACGAAGCCTCCCGGAAGAGAAAGCAAAAACCTAGC  
 CAAGGACATGAAGAACAAGCTGGGGATCTTACAGCGCGGGAATGAGTCCCCTGGAGCCCTCCCGGGGC  
 AAGGCAGACAAAATGATGAAGTATTCAAGCCACCTCAGAGGAAGCCCTCAAGTGGGGCAGTCTTTGG  
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 GAATCTGGAGTTCTGGTTGGCTGTGAGGACTTCAAGAAGGTCAAGTCAAGTCCAGTCCAGATGGCATCCAAG  
 GCCAAGAAGATCTTTGCTGAATACATCGCGATCCAGGCATGCAAGGAGGTCAACCTGGACTCCTACACGC  
 GGGAGCACACCAAGGACAACCTGCAGAGCGTACGCGGGGCTGCTTCGACCTGGCACAGAAGCGCATCTT  
 CGGGCTCATGAAAAGGACTCGTACCCTCGTTTCTCCGTTCTGACCTCTACCTGGACCTTATTAACCG  
 AAGAAGATGAGTCCCCGCTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206471 representing NM\_134427  
 Red=Cloning site Green=Tags(s)

MNRFNGLCKVCSERRYRQITIPRGKDGFGFTICCDSPVRVQAVDSGGPAERAGLQQLDVLQLNERPVEH  
 WKCVELAHEIRSCPSEIILLVWRMVPQVKPGPDGGVLRASCKSTHDLQSPPNKREKNCTHGVQARPEQR  
 HSCHLVCDSSDGLLLGGWERYTEVAKRGGQHTLPALSRATAPTDPNYIILAPLNPQSLLRPVYQEDTIP  
 EESGSPSKGKSYTGLGKKSRMKTVMKMGHGNVQNCVVVRPHATHSSYGTYYVTLAPKVLVFPVQPLD  
 LCNPARTLLLSEELLYEGRNKAEEVTLFAYSDLLLFTKEDEPGRCVDLNRNPLYLQSVKLQEGSSEDLKF  
 CVLYLAEKAECFLTEAHSQEQQKRVWCWLSENIAKQQQLAASPPDSKMFETEADKREMALEEKGPGA  
 EDSPSPKEPSGQELPPGQDLPPSKDPSGQEPAPSQEP LSSKDSATSEGSPPGDAPPSKDVPPCQEP  
 PAQDLSPCQDLPAQEP LPHQDPLLTKDLPAIQESPTRDLPPCQDLPPSQVSLPAKALTEDTMSGDLLA  
 ATGDPPAAPRPAFVIPEVRLDSTYSQKAGAEQCGSGDEEDAEEAEEVEEGEEDEDEDTSDNYGERS  
 EAKRSSMIETGQGAEGGLSLRVQNSLRRTTHSEGSL LQEPRGPCFASDTTLHCSDGEGAASTWGMPSST  
 LKKELGRNGGSMHHL SLFFTGHRKMSGADTVGDDDEASRKRKSKNLAKDMKNKLGIFRRRNESPGAPPAG  
 KADKMMKSFKPTSEEALKWGESLEKLLVHKYGLAVFQAF LRTEF SEENLEFWLACEDFKVKVSKSMASK  
 AKKIFA EYIAIQACKEVNLD SYTREHTKDNLQSVTRGCFDLAQKRIFGLMEKDSYPRFLRSDLYLDLINQ  
 KKMSPP L

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

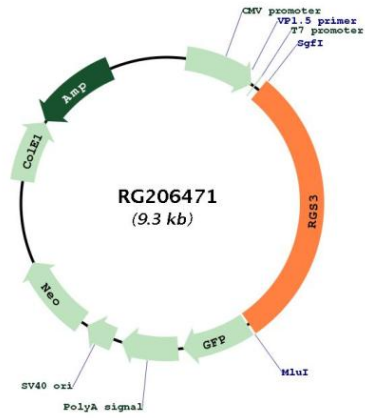
Cloning Scheme:



ACCN: NM\_134427

<b>ORF Size:</b>	2751 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_134427.1</a> , <a href="#">NP_602299.1</a>
<b>RefSeq Size:</b>	1582 bp
<b>RefSeq ORF:</b>	507 bp
<b>Locus ID:</b>	5998
<b>UniProt ID:</b>	<a href="#">P49796</a>
<b>Cytogenetics:</b>	9q32
<b>Domains:</b>	RGS
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Axon guidance
<b>Gene Summary:</b>	This gene encodes a member of the regulator of G-protein signaling (RGS) family. This protein is a GTPase-activating protein that inhibits G-protein-mediated signal transduction. Alternative splicing and the use of alternative promoters results in multiple transcript variants encoding different isoforms. Long isoforms are largely cytosolic and plasma membrane-associated with a function in Wnt signaling and in the epithelial mesenchymal transition, while shorter N-terminally-truncated isoforms can be nuclear. [provided by RefSeq, Jan 2013]

Product images:



Circular map for RG206471