Product datasheet for SC306672

RGS20 (NM_170587) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGS20 (NM_170587) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGS20
Synonyms:	g(z)GAP; gz-GAP; RGSZ1; ZGAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306672 representing NM_170587. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCCCAGCTTTCCCAAGATAACCAAGAGTGCCTCCAGAAACATTTCTCCAGGCCGTCTATATGGACA
CAGTTTCTGCCCCTGTTCAGGGCTCAGAGATATAATACAGACATTCACCAAATCACAGAAAATGAAGGA
GACCTCAGGGCTGTTCCTGATATCAAGTCCTTCCCGCCTGCACAGCTCCCAGACTCGCCCGCCGCCCCG
AAGCTGTTCGGCCTCCTTTCTAGCCCGCTTTCCAGCCTCGCAAGGTTCTTCTCTCACCTTCTCCGGCGA
CCCCCTCCCGAGGCTCCCCGGAGGCGCCTGGACTTCTCCCCCCTGCTTCCCGCCCTGCCGGCCGCCCGG
CTCTCGAGGGGGCACGAGGAGCTGCCGGGCCGCCTCTCGCTCCTGCTCGGGGCGGCGCTGGCACTGCCC
GGCCGACCCTCGGGGGGTCGTCCGCTGAGGCCCCCCCATCCGGTAGCCAAGCCCAGGGAAGAAGACGCC
ACCGCTGGGCAGAGCTCGCCTATGCCGCAGATGGGATCAGAGCGGATGGAGATGCGGAAGCGGCAGATG
CCCGCCGCCCAGGACACACCAGGCGCCGCCCCAGGCCAGCCCGGAGCGGGGAGTCGCGGGTCCAACGCA
TGCTGCTTCTGCTGGTGCTGCTGTTGTAGCTGCTCGTGTCTCACTGTTAGAAACCAGGAAGATCAGAGG
CCCACAATAGCTTCCCACGAACTCAGAGCAGATCTTCCAACCTGGGAAGAAAGCCCTGCTCCTACTCTG
GAAGAAGTCAACGCCTGGGCTCAGTCATTTGACAAATTAATGGTCACTCCAGCAGGAAGGAATGCATTC
CGTGAATTCCTCCGAACAGAATTCAGTGAGGAAAATATGCTCTTCTGGATGGCCTGTGAGGAACTGAAA
AAGGAAGCTAATAAAAACATTATTGAAGAGAAAGCAAGGATAATCTATGAAGACTACATTTCTATACTT
TCTCCTAAGGAGGTGAGCTTAGACTCCCGGGTGAGAGAAGTGATCAACAGAAACATGGTGGAGCCATCC
CAACACATATTCGATGATGCTCAACTTCAGATTTACACCCTGATGCACAGAGACTCATATCCTCGATTC
ATGAACTCTGCTGTCTATAAGGACTTGCTTCAGTCCTTATCGGAGAAATCTATTGAAGCATAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI

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ACCN:	NM_170587
Insert Size:	1167 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_170587.3
RefSeq Size:	2105 bp
RefSeq ORF:	1167 bp
Locus ID:	8601
UniProt ID:	O76081
Cytogenetics:	8q11.23
Protein Families:	Druggable Genome
MW:	43.7 kDa
Gene Summary:	The protein encoded by this gene belongs to the family of regulator of G protein signaling (RGS) proteins, which are regulatory and structural components of G protein-coupled receptor complexes. RGS proteins inhibit signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound forms. This protein selectively binds to G(z)-alpha and G(alpha)-i2 subunits, and regulates their signaling activities. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.