

Product datasheet for **RC223686**

REG3G (NM_198448) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: REG3G (NM_198448) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: REG3G
Synonyms: LPPM429; PAP-1B; PAP1B; PAP IB; PAPIB; REG-III; REG III; UNQ429
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC223686 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCCTCCCATGGCCCTGCCAGTGTGTCCTGGATGCTGCTTTCCTGCCTCATTCTCCTGTGTCAGG
 TTCAAGGTGAAGAAACCCAGAAGGAAGTCCCTCTCCACGGATCAGCTGTCCAAAGGCTCCAAGGCCTA
 TGGCTCCCCTGCTATGCCTTGTGTTTGTACCAAAATCCTGGATGGATGCAGATCTGGCTGCCAGAAG
 CGGCCCTCGAAAAGTGTCTGTGCTCAGTGGGGCTGAGGGATCCTCGTGCCTCCCTGGTGAGGA
 GCATTAGTAACAGCTACTATACATCTGGATTGGCTCCATGACCCACACAGGGCTCTGAGCCTGATGG
 AGATGGATGGGAGTGGAGTAGCACTGATGTGATGAATTACTTTGCATGGGAGAAAAATCCCTCCACCATC
 TTAACCCCTGGCCACTGTGGGAGCCTGTCAAGAAGCACAGGATTTCTGAAGTGAAAAGATTATAACTGTG
 ATGCAAAGTTACCCTATGTCTGCAAGTTCAAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223686 protein sequence
 Red=Cloning site Green=Tags(s)

MLPPMALPSVSWMLL SCLILLCQVQGEETQKELPSPRISCPKGSKAYGSPCYALFLSPKSWMDADLACQK
 RPSGKLVSVLSGAEGSFVSSLVRSISNSYSYIWIGLHDPTQGSEPDGDGWEWSSTDVMNYFAWEKNPSTI
 LNPGHCGSLSRSTGFLKWKDYNCDAKLPYVCKFKD

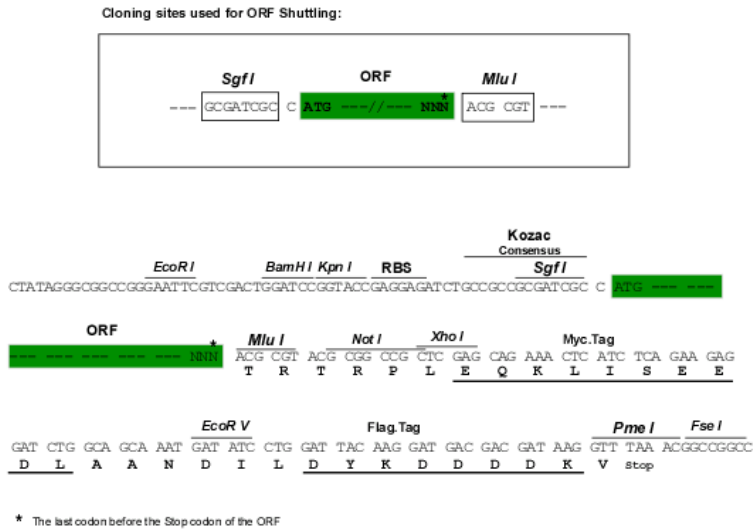
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6601_g11.zip



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198448

ORF Size: 525 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:

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_198448.1](#)

RefSeq Size: 855 bp

RefSeq ORF: 528 bp

Locus ID: 130120

UniProt ID: [Q6UW15](#)

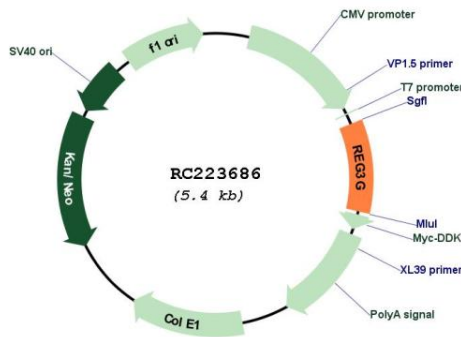
Cytogenetics: 2p12

Protein Families: Secreted Protein

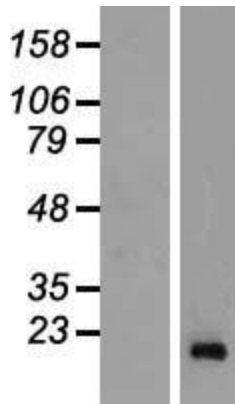
MW: 19.3 kDa

Gene Summary: This gene encodes a member of the regenerating islet-derived genes (REG)3 protein family. These proteins are secreted, C-type lectins with a carbohydrate recognition domain and N-terminal signal peptide. The protein encoded by this gene is an antimicrobial lectin with activity against Gram-positive bacteria. Alternative splicing results in multiple transcript variants encoding multiple isoforms. [provided by RefSeq, Nov 2014]

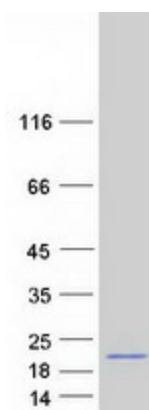
Product images:



Circular map for RC223686



Western blot validation of overexpression lysate (Cat# [LY404935]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223686 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified REG3G protein (Cat# [TP323686]). The protein was produced from HEK293T cells transfected with REG3G cDNA clone (Cat# RC223686) using MegaTran 2.0 (Cat# [TT210002]).