

Product datasheet for **RR212678**

Reg3g (NM_173097) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Reg3g (NM_173097) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Reg3g
Synonyms: Pap3; PAPIII
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212678 representing NM_173097
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCCTCGTGTAGCCCTCACCACCATGTCCTGGATGCTGCTCCAGCCTGATGCTTATCTCAGG
 TGCAAGGTGAAGATGCCAAGGAAGATGTGCCACTTCACGTATCAGCTGCCCAAGGGCTCGCGTGCTA
 TGGCTCCTATTGCTATGCCTTGTAGTGTATCCAATCTTGGTTTGTATGCAGATCTGGCCTGCCAGAAG
 AGGCCATCAGGACACCTTGTGTCTGTGCTCAGTGGATCTGAAGCTTCCTTTGTGTCTCCTTGATAAAA
 GCAGTGGTAACAGTGGCCAAAACGTGTGGATTGGGCTCCATGATCCAACACTGGGCCAAGAACCACAG
 AGGTGGATGGGAGTGGAGTAATGCTGATGTGATGAATTACTTCAACTGGGAGACGAATCCTTCTCTGTC
 TCTGGAAGTCACTGTGGACCTGACACGAGCCTCAGGATTTCTGAGGTGGAGAGAGAATAATTGTATCT
 CAGAATTGCCATATGCTGCAAGTTCAAGGCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR212678 representing NM_173097
 Red=Cloning site Green=Tags(s)

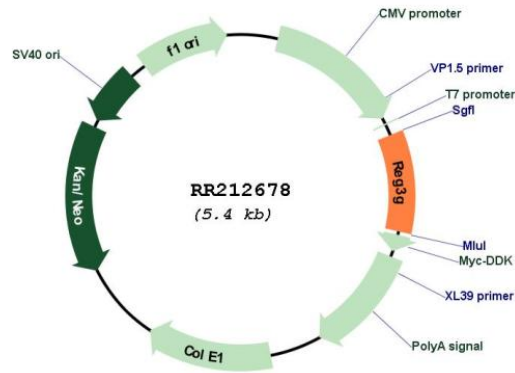
MLPRVALTTMSWMLLSSLMLLSQVQGEDAKEDVPTSRISCPKGSRAYGSYCYALFSVSKSWFDADLACQK
 RPSGHLVSVLSGSEASFVSSLIKSSGNSGQNVWIGLHDP TLGQEPNRGGWEWSNADVMNYFNWETNPSSV
 SGSHCGTLTRASGFLRWRENNCISELPYVCKFKA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_173097

ORF Size: 522 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:	<u>NM_173097.1</u> , <u>NP_775120.1</u>
RefSeq Size:	773 bp
RefSeq ORF:	525 bp
Locus ID:	24620
UniProt ID:	<u>P42854</u>
Cytogenetics:	4q33
MW:	19.1 kDa
Gene Summary:	Bactericidal C-type lectin which acts exclusively against Gram-positive bacteria and mediates bacterial killing by binding to surface-exposed carbohydrate moieties of peptidoglycan. Restricts bacterial colonization of the intestinal epithelial surface and consequently limits activation of adaptive immune responses by the microbiota. The uncleaved form has bacteriostatic activity, whereas the cleaved form has bactericidal activity against <i>L.monocytogenes</i> and methicillin-resistant <i>S.aureus</i> . Regulates keratinocyte proliferation and differentiation after skin injury (By similarity).[UniProtKB/Swiss-Prot Function]