

Product datasheet for **MG220033**

Reg3a (NM_011259) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Reg3a (NM_011259) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Reg3a
Synonyms: AV063448
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG220033 representing NM_011259
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCCTCACCTGGTCTCAACAGTATTTCTGGATGCTGCTCTCTGCCTGTTGTTTGTATTTGAGG
 TACAAGGTGAAGACTTCCAGAAGGAAGTGCCCTCTCCACGTACCAGCTGCCCCATGGGTTACAAGGCTTA
 TCGCTCCCCTGCTATGCCTTAGTTATGACACCTAAATCTGGTTTCAAGCAGATCTGGTCTGCCAGAAG
 AGACCTCAGGACATCTCGTGTCTATTCTTAGTGGAGGTGAGGCTTCTTTGTGCTCCTTGGTGAACG
 GCAGAGTGGACAACCTACCAAGACATCTGGATTGGGCTCCATGATCCAACAATGGGTCAACAACCCAATGG
 AGGTGGATGGGAGTGGAGTAACTCCGATGTGCTGAATTATCTTAACTGGGATGGGATCCTTCTCTACT
 GTCAACCGTGGTCACTGTGGGAGTCTGACAGCAAGTTCAGGGTTTCTGAAGTGGGAGACTATTACTGCG
 ATGGGACATTACCATTTGTCTGCAAGTTCAAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG220033 representing NM_011259
 Red=Cloning site Green=Tags(s)

MLPHLVLNSISWMLLSCLLFVVFQVQGEDFQKEVPSRPTSCPMGYKAYRSHCYALVMPKSWFQADLVCQK
 RPSGHLVSILSGGEASFVSSLVNGRVDNYQDIWIGLHDPMTGQQPNGGGWEWSNSDVLNLYLNLWDGDPSS
 VNRGHCGLTASSGFLKWGDYCDGTLPFVCKFKQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_011259

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_011259.1](#), [NP_035389.1](#)

RefSeq Size: 837 bp

RefSeq ORF: 528 bp

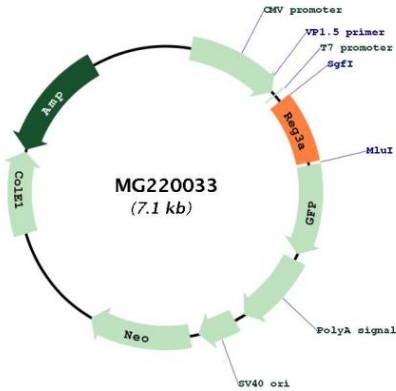
Locus ID: 19694

UniProt ID: [O09037](#)

Cytogenetics: 6 34.76 cM

Gene Summary: Bactericidal C-type lectin (By similarity). Regulates keratinocyte proliferation and differentiation after skin injury via activation of EXTL3-PI3K-AKT signaling pathway. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG220033