

Product datasheet for **MG226869**

Areg (NM_009704) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Areg (NM_009704) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Areg
Synonyms:	AR; Mcub; Sdg; Sdgf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226869 representing NM_009704 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGAACTCCGCTGCTACCGCTGGCGCGCTCAGTGCTGTTGCTGCTGGTCTTAGGCTCAGGCCATTATG
CAGCTGCTTTGGAGCTCAATGACCCAGCTCAGGGAAAGCGAATCGCTTTCTGGGGACCACAGTGCCGG
TGGACTTGAGCTTTCTGTGGGAAGAGAGGTTCCACCATAAGCGAAATGCCTTCTGGCAGTGAACTCTCC
ACAGGGGACTACGACTACTCAGAGGAGTATGATAATGAACCACAAATATCCGGCTATATTATAGATGATT
CAGTCAGAGTTGAACAGGTGATTAAGCCCAAGAAAAACAAGACAGAAGGAGAAAAAGTCTACAGAAAAACC
CAAAAGGAAGAAAAAGGGAGGCAAAAATGGAAAAGGCAGAAGGAATAAGAAGAAAAAGAATCCATGCACT
GCCAAGTTTCAGAACTTTTGCATTTCATGGCGAATGCAGATACATCGAGAACCTGGAGGTGGTGACATGCA
ATTGTCATCAAGATTACTTTGGTGAACGGTGTGGAGAAAAATCCATGAAGACTCACAGCGAGGATGACAA
GGACCTATCCAAGATTGCAGTAGTAGCTGTCACTATCTTTGTCTCTGCCATCATCCTCGCAGCTATTGGC
ATCGGCATCGTTATCACAGTGCACCTTTGGAAACGATACTTCAGGGAATATGAAGGAGAAACAGAAGAAA
GAAGGAGGCTTCGACAAGAAAAATGGGACTGTGCACGCCATTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226869 representing NM_009704
Red=Cloning site Green=Tags(s)

MRTPLLPLARSVLLLLVLGSGHYAAALELNDPSSGKGESLSGDHSAGGLELSVGREVSTISEMPSGSELS
 TGDYDYSEEYDNEPQISGYIIDDSVRVEQVIKPKKNKTEGEKSTEKPKRKKKGGKNGKGRNKKKKNPCT
 AKFQNFCIHGECRYIENLEVVTNCNCHQDYFGERCGEKSMKTHSEDDKDLSKIIVAVVTIFVSAIIILAAIG
 IGIVITVHLWKRYFREYEGETEERRRLRQENGTVHAIA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009704

ORF Size: 744 bp

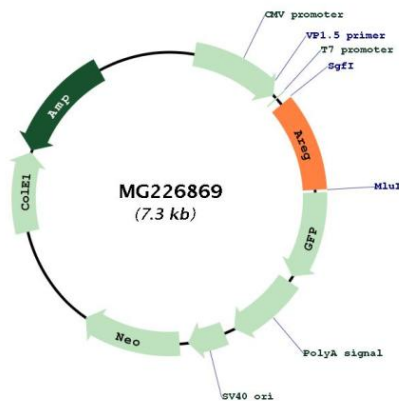
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_009704.2](#)
- RefSeq Size:** 1199 bp
- RefSeq ORF:** 747 bp
- Locus ID:** 11839
- UniProt ID:** [P31955](#)
- Cytogenetics:** 5 44.78 cM
- Gene Summary:** This gene encodes a member of the epidermal growth factor (EGF) family and preproprotein that is proteolytically processed to generate a mature protein product. The encoded protein is a ligand of the epidermal growth factor receptor (EGFR) and has been shown to play a role in immunity, inflammation, tissue repair, and lung and mammary gland development. Homozygous knockout mice for this gene exhibit impaired immune system regulation in the skin and gene expression changes characteristic of chronic liver damage. [provided by RefSeq, Aug 2015]

Product images:



Circular map for MG226869