

## Product datasheet for **MG204674**

### Arg1 (NM\_007482) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Arg1 (NM\_007482) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Arg1  
**Synonyms:** AI; AI256583; Arg-1; PGIF  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG204674 representing NM\_007482  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGCTCCAAGCCAAAGTCCTTAGAGATTATCGGAGCGCCTTTCTCAAAGGACAGCCTCGAGGAGGGG  
 TAGAGAAAGGCCCTGCAGCACTGAGGAAAGCTGGTCTGCTGGAAAACTAAAGAAACAGAGTATGACGT  
 GAGAGACCACGGGACCTGGCCTTTGTTGATGTCCTAATGACAGCTCCTTCAAATTGTAAGAACCCA  
 CGGTCTGTGGGAAAGCCAATGAAGAGCTGGCTGGTGTGGTGGCAGAGGTCCAGAAGAATGAAGAGTCA  
 GTGTGGTCTGGTGGAGACCACAGTCTGGCAGTTGGAAGCATCTCTGGCCACGCCAGGGTCCACCCTGA  
 CCTATGTGTCATTTGGGTGGATGCTCACACTGACATCAACTCCCTGACAACCAAGCTCTGGGAATCTG  
 CATGGGCAACCTGTGTCCTTCTCCTGAAGGAAGTAAAGGAAAGTTCCAGATGTACCAGGATTCTCT  
 GGGTGACTCCCTGCATATCTGCCAAAGACATCGTGTACATTGGCTTGGCAGACGTAGACCCTGGGGAACA  
 CTATATAATAAAAAGTCTGGGAATTAAGTATTTCTCCATGACTGAAGTAGACAAGCTGGGGATTGGCAAG  
 GTGATGGAAGAGACCTTCAGCTACCTGCTGGGAAGGAAGAAAAGGCCGATTCACCTGAGCTTTGATGTCG  
 ATGGGCTGGACCCAGCATTACCCCGGCGACCCGACCCCGTCTGGGAGGCCTATCTTACAGAGAAGG  
 TCTCTACATCACAGAAGAAATTTACAAGACAGGGCTCCTTTCAGGACTAGATATCATGGAAGTGAACCA  
 ACTCTTGGGAAGACAGCAGAGGAGGTGAAGAGTACTGTGAACACGGCAGTGGCTTTAACCTTGGCTTGT  
 TCGGAACCAACGGGAGGGTAACCATAAGCCAGGGACTGACTACCTTAAACCACCTAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_007482

**ORF Size:** 969 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_007482.2](#), [NP\\_031508.1](#)

**RefSeq Size:** 1453 bp

RefSeq ORF: 972 bp

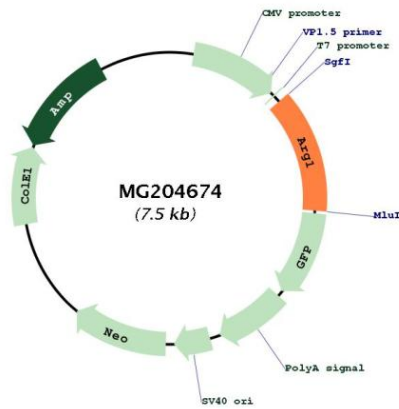
Locus ID: 11846

UniProt ID: [Q61176](#)

Cytogenetics: 10 A4

**Gene Summary:** Key element of the urea cycle converting L-arginine to urea and L-ornithine, which is further metabolized into metabolites proline and polyamides that drive collagen synthesis and bioenergetic pathways critical for cell proliferation, respectively; the urea cycle takes place primarily in the liver and, to a lesser extent, in the kidneys.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG204674