

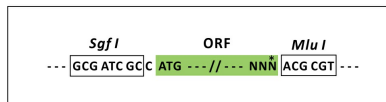
Product datasheet for RC206756L1

ARG2 (NM_001172) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARG2 (NM_001172) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARG2
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
Cell Selection:	None
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC206756).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



ACCN: NM_001172
ORF Size: 1062 bp



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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_001172.3](#)

RefSeq Size: 1981 bp

RefSeq ORF: 1065 bp

Locus ID: 384

UniProt ID: [P78540](#)

Cytogenetics: 14q24.1

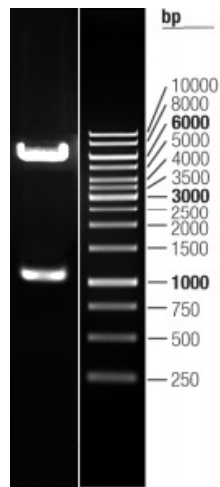
Domains: arginase

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

MW: 38.6 kDa

Gene Summary:

Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exists (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type II isoform encoded by this gene, is located in the mitochondria and expressed in extra-hepatic tissues, especially kidney. The physiologic role of this isoform is poorly understood; it is thought to play a role in nitric oxide and polyamine metabolism. Transcript variants of the type II gene resulting from the use of alternative polyadenylation sites have been described. [provided by RefSeq, Jul 2008]

Product images:

Double digestion of RC206756L1 using SgfI and MluI