

Product datasheet for RC206756

ARG2 (NM_001172) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

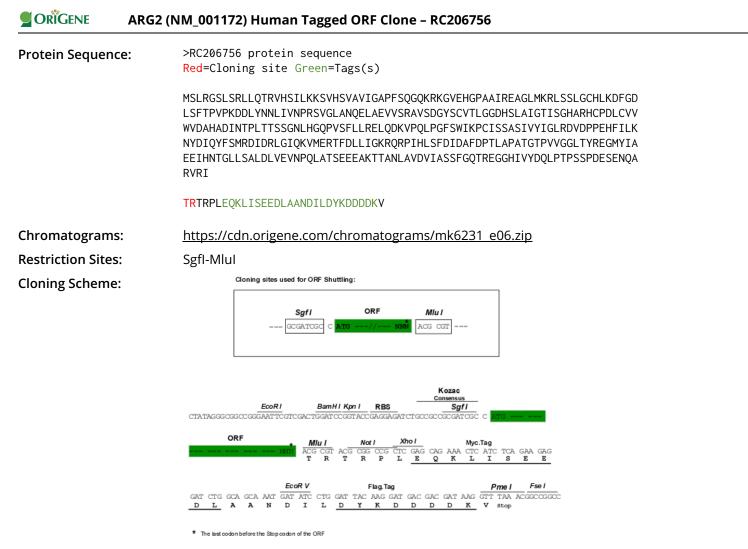
Product Type:	Expression Plasmids
Product Name:	ARG2 (NM_001172) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC206756 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ATGTCCCTAAGGGGCAGCCTCTCGCGTCTCCTCCAGACGCGAGTGCATTCCATCCTGAAGAAATCCGTCC TGCCATAAGAGAAGCTGGCTTGATGAAAAGGCTCTCCAGTTTGGGCTGCCACCTAAAAGACTTTGGAGAT TTGAGTTTTACTCCAGTCCCCAAAGATGATCTCTACAACAACCTGATAGTGAATCCACGCTCAGTGGGTC TTGCCAACCAGGAACTGGCTGAGGTGGTTAGCAGAGCTGTGTCAGATGGCTACAGCTGTGTCACACTGGG AGGAGACCACAGCCTGGCAATCGGTACCATTAGTGGCCATGCCCGACACTGCCCAGACCTTTGTGTGTC TGGGTTGATGCCCATGCTGACATCAACACACCCCCTTACCACTTCATCAGGAAATCTCCATGGACAGCCAG TTTCATTTCTCCTCAGAGAACTACAGGATAAGGTACCACAACTCCCAGGATTTTCCTGGATCAAACCTTG AACTATGATATCCAGTATTTTTCCATGAGAGATATTGATCGACTTGGTATCCAGAAGGTCATGGAACGAA CATTTGATCTGCTGATTGGCAAGAGACAAAGACCAATCCATTTGAGTTTTGATATTGATGCATTTGACCC TACACTGGCTCCAGCCACAGGAACTCCTGTTGTCGGGGGACTAACCTATCGAGAAGGCATGTATATTGCT GAGGAAATACACAATACAGGGTTGCTATCAGCACTGGATCTTGTTGAAGTCAATCCTCAGTTGGCCACCT CAGAGGAAGAGGCGAAGACTACAGCTAACCTGGCAGTAGATGTGATTGCTTCAAGCTTTGGTCAGACAAG AGAAGGAGGGCATATTGTCTATGACCAACTTCCTACTCCCAGTTCACCAGATGAATCAGAAAATCAAGCA CGTGTGAGAATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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ACCN: ORF Size: OTI Disclaimer:

NM 001172

1062 bp

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 <u>custsupport@origene.com</u> 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. <u>More info</u>

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Sevent ARG2 (NM_001172) Human Tagged ORF Clone – RC206756	
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 001172.4</u>
RefSeq Size:	1981 bp
RefSeq ORF:	1065 bp
Locus ID:	384
UniProt ID:	<u>P78540</u>
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

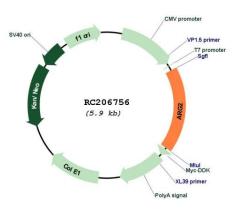
resulting from the use of alternative polyadenylation sites have been described. [provided by

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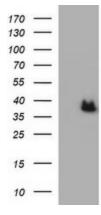
RefSeq, Jul 2008]



Product images:

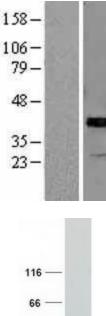


Circular map for RC206756

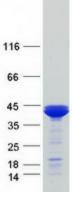


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ARG2 (Cat# RC206756, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ARG2(Cat# [TA506751]). Positive lysates [LY420091] (100ug) and [LC420091] (20ug) can be purchased separately from OriGene.

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Western blot validation of overexpression lysate (Cat# [LY420091]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206756 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARG2 protein (Cat# [TP306756]). The protein was produced from HEK293T cells transfected with ARG2 cDNA clone (Cat# RC206756) using MegaTran 2.0 (Cat# [TT210002]).

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