

Product datasheet for **RR214771**

Arg2 (NM_019168) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arg2 (NM_019168) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arg2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214771 representing NM_019168 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCTGAGGAGCAGCGTCTCCCGTCTCTCCACGGGCAAATTCCTTGTGCCCTGACGAGATCCGTCC
ACTCTGTAGCTGTAGTCGGAGCCCTTTCTCTCGGGACAGAAAAGAAAGGAGTGAATATGGCCAGC
CGCCATCCGAGAAGCTGGCTTGCTGAAGAGGCTTCTATGTTGGGATGCCATATAAAGACTTTGGAGAC
TTGAGTTTTACTAACGTTCCCAAAGATGATCCCTACAATAATCTGGTCGTGTATCCTCGCTCAGTGGGCA
TTGCCAACAGGAACTGGCTGAGGTGGTTAGTAGAGCTGTGTCAGGTGGCTACAGCTGTGTCACACTGGG
AGGAGACCACAGCCTGGCAATCGGTACCATAGTGGCCATGCCCGACACCACCCAGATCTCTGTGCATC
TGGGTTGATGCTCATGCTGACATTAATACACCCCTCACCCTGTATCAGGAAATATCCATGGGCAGCCTC
TTTCTTTCTCATCAGAGAACTACAAGACAAGGTACCACAACGCCAGGATTTTCTGGATCAAACCTTG
CCTCTCTCCCCAAATCTGTATACATTGGCTTACGAGATGTGGAGCCTGCCGAACACTTTATTTTAAAG
AGTTTTGACATCCAGTATTTCTCCATGAGAGATATTGATCGACTTGGTATCCAGAAGGTCATGGAACAGA
CATTTGATCGGCTGATTGGCAAGAGGAAGAGGCCGATCCACCTGAGCTTTGACATAGATGCATTTGACCC
TAAGCTGGCTCCAGCCACAGGAACCCCTGTGGTAGGGGGCTGACCTACAGAGAAGGACTGTACATTACT
GAAGAAATACATAGCACAGGGTTGCTGTGCGCTCTGGATCTTGTGAAGTCAATCCTCATTGGCCACTT
CTGAGGAAGAGGCCAAGGCTACAGCCAGCCTAGCAGTGGATGTGATTGCTTCAAGTTTTGGTCAGACAAG
AGAAGGCGGACACATTGCCTATGACCACCTTCTACTCTAGTTCACCACATGAATCAGAAAAGGAAGAA
TGTGTGAGAATT

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214771 representing NM_019168
Red=Cloning site Green=Tags(s)

MFLRSSVSRLHGGQIPCALTRSVHSAVAVGAPFSRQKKKGVEYGPAAIREAGLLKRLSMLGCHIKDFGD
 LSFTNVPKDDPYNNLVVYPRSVGIANQELAEVVSRAVSGGYSCVTLGGDHSLAIGTISGHARHHPDLCVI
 WYDAHADINTPLTTVSGNIHQPLSFLIRELQDKVPQLPGFSWIKPCLSPNVLVYIGLRDVEPAEHFILK
 SFDIQYFSMRDIDRLGIQKVMQTFDRLIGKRKRPIHLSFDIDAFDPKLAPATGTPVVGGLTYREGLYIT
 EEIHSTGLLSALDLVEVNPPLATSEEEAKATASLAVDVIASSFGQTREGGHIAYDHLPTPSSPHESEKEE
 CVRI

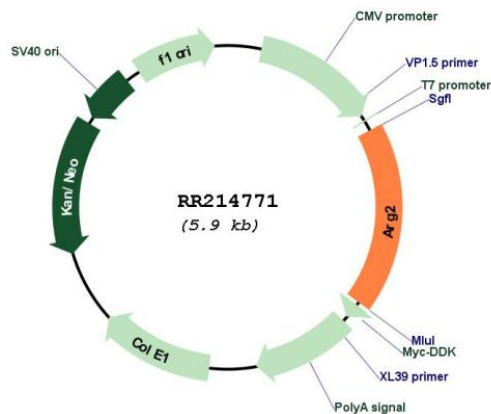
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_019168

ORF Size:	1062 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:	<ol style="list-style-type: none">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_019168.1 , NP_062041.1
RefSeq Size:	1463 bp
RefSeq ORF:	1065 bp
Locus ID:	29215
UniProt ID:	O08701
Cytogenetics:	6q24
MW:	38.6 kDa
Gene Summary:	catalyzes the hydrolysis of arginine to ornithine and urea; may regulate nitric oxide production [RGD, Feb 2006]