

Product datasheet for **RR203200**

Arc (NM_019361) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Arc (NM_019361) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Arc
 Synonyms: rg3.1
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR203200 representing NM_019361
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTGGACCATATGACGACCGGGCGCTCCACGCCTACCCTGCCCCGGGGTGGGCCGGCCCA
 AACCCAATGTGATCCTGCAGATTGTAAGTGCCGAGCTGAGATGTGGAGCACGTACGGAGACCCACCG
 GCATCTGTTGACCGAAGTGTCCAAGCAGGTGGAGCGAGAGCTGAAAGGGTGCACAGGTCGGTGGGCAAG
 CTGGAGAACAACTTGGACGGCTATGTGCCACGGGCGACTCACAGCGCTGGAAGAAGTCCATCAAGGCCT
 GTCTCTGCCGCTGCCAGGAGACCATCGCCAACCTGGAGCGCTGGGTCAAGCGTGAGATGCACGTGTGGAG
 GGAGGTCTTCTACCGTCTGGAGAGGTGGGCCGACCGCCTGGAGTCCATGGGCGGCAAGTACCCAGTGGGC
 AGCGAGCCGGCCCGCCACTGTCTGTAGGTGTGGGGGTCCAGAGCCCTACTGCCAGGAAGCTGATG
 GCTACGACTACACTGTTAGCCCCATGCCATCACCCCGCCACCTGCCGAGGAGAGCTGCCTGAGCAGGA
 GTCAGTTGGGGCTCAGCAATACCAGTCTTGGGTGCCAGGTGAGGATGGGCAACCAAGCCAGGTCTGGAT
 ACCCAGATCTTTGAGGACCCACGGGAGTTCCTGAGCCACCTGGAAGAGTACCTGCCGAGGTGGGTGGCT
 CTGAAGAATATTGGCTGTCCCAGATCCAGAACCACATGAATGGGCCAGCCAAGAAGTGGTGGGAGTTCAA
 ACAGGGCTCGGTGAAGAAGTGGGTGGAGTTCAAGAAGGAGTTTCTGCAGTACAGTGAGGGTACGCTCTCC
 CGGAAGCCATTACGCGGAGCTGGACCTGCCACAGAAGCAGGGTGGAGCCACTTGACCAGTTCCTCTGGC
 GTAAGCGGGACCTGTACCAGACTGTATGTGGACGCTGAGGAGGAGGAGATCATTAGTATGTGGTGGG
 CACCCTGCAGCCCAAGTTCAAGCGCTTCTGCGCCACCCACTTCCAAGACCCTGGAGCAGCTCATCCAG
 AGGGGCATGGAAGTTCAGGACGGCCTGGAGCAGGAGCTGAGCCTTCTGTACCCCTCTGCCACAGAGG
 ATGAGACTGAGGCACTCACGCCTGCTCTTACCAGCGAGTCAGTAGCCAGTGACAGGACCCAGCCTGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR203200 representing NM_019361
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MELDHMTTGGLHAYPAPRGGPAAKPNVILQIGKRAEMLEHVRTRHLLTEVSKQVERELKGLHRSVVGK
 LENNLGDYVPTGDSQRWKSIIKACLRCQETIANLERWVKREMHVWREVFYRLERWADRLESMMGGKYPVG
 SEPARHTVSVGVGGPEPYCQEADGYDYTVSPYAITPPPAAGELPEQESVGAQQYQSWVPGEDGQPSPLD
 TQIFEDPREFLSHLEEYLRQVGGSEYWLSQLQNHMNGPAKKWVEFKQGSVKNWVEFKKEFLQYSEGTLSS
 REAIQRELDLPQKQGEPLDQFLWRKRDLYQTLYVDAEEEEIIQYVVGTLQPKFKRFLRHPLPKTLEQLIQ
 RGMVQDGLQAAEPSVTPLPTEDETEALTPALTSVSDRTQPE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

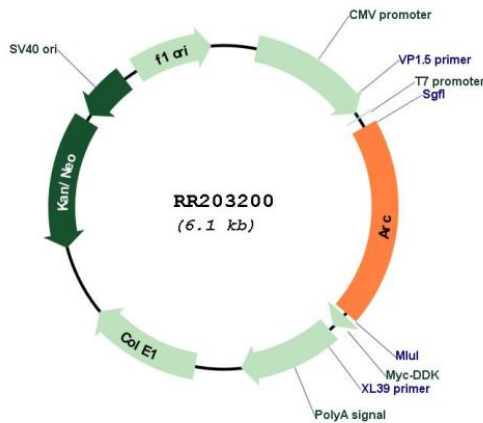
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_019361

ORF Size:	1188 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_019361.1 , NP_062234.1
RefSeq Size:	3032 bp
RefSeq ORF:	1191 bp
Locus ID:	54323
UniProt ID:	Q63053
Cytogenetics:	7q34
MW:	45.4 kDa
Gene Summary:	may play a role in neuronal plasticity, long-term potentiation, and memory consolidation [RGD, Feb 2006]