

## Product datasheet for **MR210943**

### Arhgef15 (NM\_177566) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef15 (NM_177566) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgef15
Synonyms:	D130071N09; D530030K12Rik; E5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MR210943 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTGCACAGTCTCTTCTCGACGAACGCCCTACCTTGAAGCCCCCTCGGATCATCCGCCCCGAC  
 CCCCATCTCGGCATAGGGCTCCACACTCCCGGGGCTCTCCACAATGGCTCCTCTCCGAAAGCACTTCC  
 TCAAATATCCAATGATGCATCGGCCTCAGTGTGCACCTCCATCTTCTGGGAGCCCCCACGGCTTCCTG  
 AAGCCCCCTGCTCTTCTGCCTCCCTCAGTTTCTAGAACCAGCCTGGACTCTCAGACTTCCCTGACTCAC  
 CTTCCAGCACACCGAGTCCAGCCAGTGTCCCGGCGCTCCATCTCCCGAGAACCAGCTCCCTGCTCTCC  
 GGTGCCCCACCCAAGCCCTCTGGGTCTCCCGAACACCTCTGCCCTCGGGCCCTACGCCTCTCCAGGAT  
 GGCTCTGCTTCGGCCCCGGCACGGTTCGTAGACTGGCCGGCAAGTTTGAATGGGGAGCTGAAGGCAAAG  
 CCCAGTCTCAGACTCCCTGGAACGGTGTCCCAAGGGAGCACGGAAGTGAATGGGGAGAAAGAGACTCC  
 CGAAGCCGCCCTTCTGGGAATGGGTCCCAGGAGAACGGCACTCCCGATGCTGCCCTGGCCTGCCCTCCA  
 TGCTGCCCTGTGCTGCCATGTAGCAAAGCCTGGCCTGGAGCTCCGGTGGGTGCCTGTGGGGAGTCTG  
 AGGACATCCTCAGGATCCCTGCCGGGCATCCCACTCCGAGCCTCCCGCTCCCGCATCAATCCTCCAGT  
 CATCAGTACCCTCCAGTTGTGCTCACGTCTATCGTCCACTGCCGAGCGCAAACCTCTACCTCCCTC  
 AAGCCCCCAAGCCAACAAAGTCAGACAGGATATCAGCACCTCTGAGGAGCTTCCACAGCCAGATCTGA  
 AACTGCCTTCAGAAGATGGGATCCAAACTGCTACAAAGGCCTGGGAAGGGGACAGACCTGAAGGAGCTCC  
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 GCGCTTCTCCGAGAGCTGCGAAGGCTGCAGAGCCTCCCAATGTGAGCGGCTCCCGCTGCCATCTTTC  
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 AGGGGTCCAGTCTCAGGAGAACGCCAGAAAGGCTCTGGGTGCTGTGAGCAAGATCATTGAGCGCTGCAG  
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 AGGGCCGCCCCACCCACAGGCTACTCCAAGCGGCTCACTATCAGACATGCAGCGCTGGCTGGGAGCCTT  
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 TGTTCAGAGCCATCCACACCTTCCAAGACTGAGGGGCAAAGTCTGGAGTCCAAGGCCCCCGAAAGCATC  
 TGACAAGAATCCAGAAGTTGGCTTAAGGGGTTCTTGAGCCTTCCCTGCCAACTGGTGTGTGAAGT  
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**Protein Sequence:**

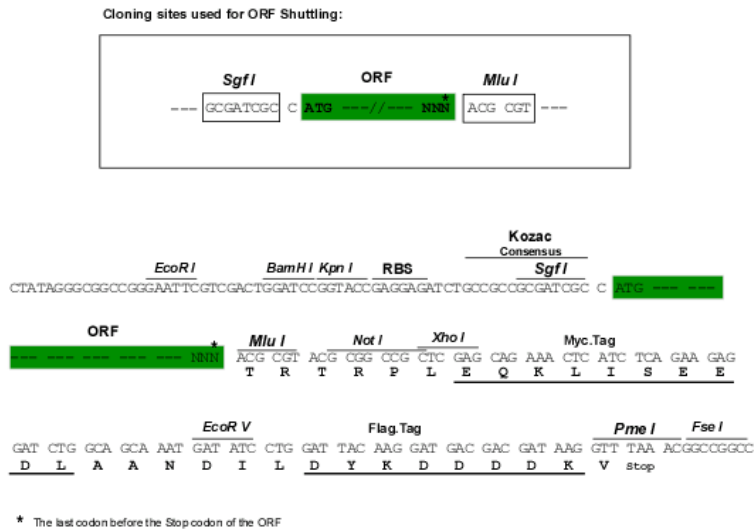
>MR210943 protein sequence  
 Red=Cloning site Green=Tags(s)

MSAQLPAATPPTLKPPRIIRPPPSRHRAPHSPGPLHNGSSPKALPQISNDASASVCTSIFWEPPTASL  
 KPPALLPPSVSRTSLDSQTSPPSPSPVSRRSISPAPCSPVPPPKPSGSSRTPLPSGPTPLQD  
 GSASAPGTVRRLAGKFEWGAEGKAQSSDSLERCSSQGSTEVNGEKETPEAALSGNGSQENGTDAALACPP  
 CCPCVCHVAKPGLLELRWVPGVSSDILRIPCASPLRASRSRINPPVISHPPVVLTSYRSTAERKLLPPL  
 KPPKPTKVRQDISTSSEELPQDCLKLPSEDLQATKAWEGDRPEGAPLNAPPVALEGREEEGLDGLKGLQ  
 WELPLQDEPLYQTYRAAVLSEELWGVGEDGGPSANPGEAPTF SRLPGPRNTLWQELPAVRGSGLLESLS  
 PQERRMQESLFEVVTSEASYLRSLRLLTDTFVLSQALRDTLTPRDHHTLFSNVQRVQSVSERFLGTLISR  
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 LLLPFQRITRLRMLLQNILSQTEEGSSRQENAQKALGAVSKIIERCSAEVGRMKQTEELIRLTQRLRFHK  
 VKALPLVSWRRELELQGELTELGCRGGVLFTRPRFTPLCLLLSDLLLITQPKSGQLQVLDYHRSL  
 VQAQQVPDPSGPPPTFRLSLLSNHQGRPTHRLQAASLSDMQRWLGAFTPGPLPCSPDTIYEDCECSQEL  
 CSEPSTPSKTEGQSLESKAPRKHLHKNPEGWLKGLPGAFFAQLVCEVTGEHERRKHLRQHQLLEAVGSPS  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

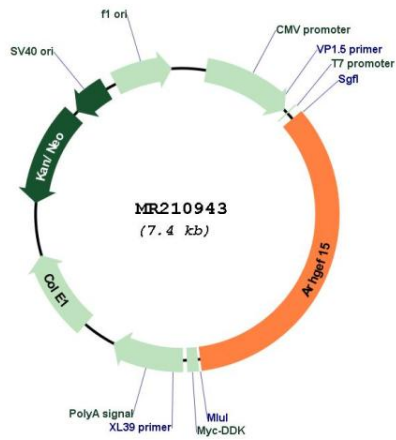
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


<b>ACCN:</b>	NM_177566
<b>ORF Size:</b>	2550 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_177566.4</a>
<b>RefSeq Size:</b>	4213 bp
<b>RefSeq ORF:</b>	2550 bp
<b>Locus ID:</b>	442801
<b>UniProt ID:</b>	<a href="#">Q5FWH6</a>
<b>Cytogenetics:</b>	11 B3
<b>MW:</b>	92.9 kDa
<b>Gene Summary:</b>	Specific GEF for RhoA activation. Does not activate RAC1 or CDC42. Regulates vascular smooth muscle contractility. Negatively regulates excitatory synapse development by suppressing the synapse-promoting activity of EPHB2.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210943