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Product datasheet for RC202273

ARHGEF19 (NM_153213) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGEF19 (NM_153213) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARHGEF19
Synonyms:	WGEF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202273 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACTGTGGGCCACCTGCTACCCTCCAGCCCCACCTGACTGGGCCACCTGGCACTGCCCACCACCCTG
TAGCAGTGTGCCAGCAGGAGAGTCTGTCCTTTGCAGAGCTGCCCGCCCTGAAGCCCCCGAGCCCAGTGTG
TCTGGACCTTTTCCCTGTTGCCCCAGAGGAGCTTCGGGCTCCTGGCAGCCGCTGGTCCCTGGGGACCCCT
GCCCCTCTCCAAGGGTTGCTATGGCCATTATCCCCAGGAGGCTCAGATACAGAGATCACCAGCGGGGGGA
TGCGGCCCAGCAGGGCTGGCAGCTGGCCACACTGTCCTGGTGCCCAGCCCCCAGCTCTGGAGGGACCCTG
GAGTCCCCGACACACACAGCCACAGCGCCGGGCCAGCCACGGCTCGGAGAAGAAGTCTGCCTGGCGCAAG
ATGCGGGTGTACCAGCGTGAAGAGGTCCCCGGCTGCCCCGAGGCCCACGCTGTCTTCCTAGAGCCTGGCC
AGGTAGTGCAAGAGCAGGCCCTGAGCACAGAGGAGCCCAGGGTGGAGTTGTCTGGGTCCACCCGAGTGAG
CCTCGAAGGTCCTGAGCGGAGGCGCTTCTCGGCATCGGAGCTGATGACCCGGCTGCACTCTTCTCTGCGC
CTGGGGCGGAATTCAGCAGCCCGGGCACTCATCTCTGGGTCAGGCACCGGAGCAGCCCGGGAAGGGAAAG
CATCTGGAATGGAGGCTCGAAGTGTAGAGATGAGCGGGGACCGGGTGTCGCGGCCAGCCCCTGGTGACTC
ACGAGAGGGCGATTGGTCCGAGCCCAGGCTAGACACACAGGAAGAGCCGCCTTTGGGGTCCAGGAGCACC
AACGAGCGGCGCCAGTCTCGATTCCTCCTTAACTCCGTCCTCTATCAGGAATACAGCGACGTGGCCAGCG
CCCGCGAACTGCGGCGGCAGCAGCGCGAGGAGGAGGGCCCGGGGGACGAGGCCGAGGGCGCAGAGGAGGG
GCCGGGGCCGCCGCGGGCCAACCTCTCCCCCAGCAGCTCCTTCCGGGCGCAGCGCTCGGCGCGAGGCTCC
ACCTTCTCGCTGTGGCAGGATATCCCCGACGTACGCGGCAGCGGCGTCCTGGCCACGCTGAGCCTGCGGG
ACTGCAAGCTGCAGGAGGCCAAGTTTGAGCTGATCACCTCCGAGGCCTCCTACATCCACAGCCTGTCGGT
GGCTGTGGGCCACTTCTTAGGCTCTGCCGAGCTGAGCGAGTGTCTGGGGGCGCAGGACAAGCAGTGGCTG
TTTTCCAAACTGCCCGAGGTCAAGAGCACCAGCGAGAGGTTCCTGCAGGACCTGGAGCAGCGGCTGGAGG
CAGATGTGCTGCGCTTCAGCGTGTGCGACGTGGTGCTGGACCACTGCCCGGCCTTCCGCAGAGTCTACCT
GCCCTATGTCACCAACCAGGCCTACCAGGAGCGCACCTACCAGCGCCTGCTCCTGGAGAACCCCAGGTTC
CCTGGCATCCTGGCTCGCCTGGAGGAGTCTCCTGTGTGCCAGCGTCTGCCCCTTACCTCCTTCCTTATCC
TGCCCTTCCAGAGGATCACCCGCCTCAAGATGTTGGTGGAGAACATCCTGAAGCGGACAGCACAGGGCTC
TGAAGACGAAGACATGGCCACCAAGGCCTTCAATGCGCTCAAGGAGCTGGTGCAGGAGTGCAATGCTAGT
GTACAGTCCATGAAGAGGACAGAGGAACTCATCCACCTGAGCAAGAAGATCCACTTTGAGGGCAAGATTT
TCCCGCTGATCTCTCAGGCCCGCTGGCTGGTTCGGCATGGAGAGTTGGTAGAGCTGGCACCACTGCCTGC
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CTCTCTCGGCGGAAGGAGCTAGGGAAGTTTGCCGTTTTCGTCCATGCCAAGATGGCTGAGCTGCAGGTGC
GGGACCTGAGCCTGAAGCTGCAGGGCATCCCCGGCCACGTGTTCCTCCTCCAGCTCCTCCACGGGCAGCA
CATGAAGCACCAGTTCCTGCTGCGGGCCCGGACGGAAAGTGAGAAGCAGCGATGGATCTCAGCCTTGTGC
CCCTCCAGCCCCCAGGAGGACAAGGAGGTCATCAGTGAGGGGGAAGATTGCCCCCAGGTTCAGTGTGTTA
GGACATACAAGGCACTGCACCCAGATGAGCTGACCTTGGAGAAGACTGACATCCTGTCAGTGAGGACCTG
GACCAGTGACGGCTGGCTGGAAGGGGTCCGCCTGGCAGATGGTGAGAAGGGGTGGGTGCCCCAGGCCTAT
GTGGAAGAGATCAGCAGCCTCAGCGCCCGCCTCCGAAACCTCCGGGAGAATAAGCGAGTCACAAGTGCCA
CCAGCAAACTGGGGGAGGCTCCTGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202273 protein sequence
Red=Cloning site Green=Tags(s)

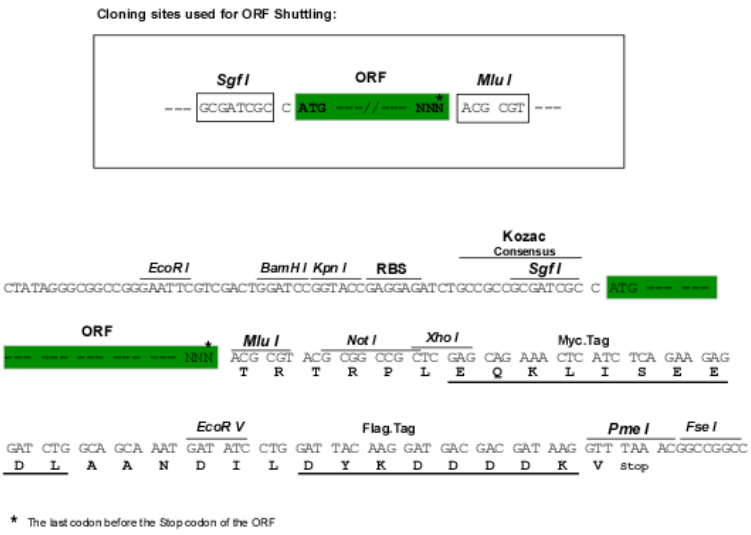
MDCGPPATLQPHLTGPPGTAHHPVAVCQQESLSFAELPALKPPSPVCLDLFPVAPEELRAPGSRWSLGTP
APLQGLLWPLSPGGSDTEITSGGMRPSRAGSWPHCPGAQPPALEGPWSPRHTQPQRRASHGSEKKSAWRK
MRVYQREEVPGCPEAHAVFLEPGQVVQEQALSTEEPRVELSGSTRVSLEGPERRRFSASELMTRLHSSLR
LGRNSAARALISGSGTGAAREGKASGMEARSVEMSGDRVSRPAPGDSREGDWSEPRLDTQEEPPLGSRST
NERRQSRFLLNSVLYQEYSDVASARELRRQQREEEGPGDEAEGAEEGPGPPRANLSPSSSFRAQRSARGS
TFSLWQDIPDVRGSGVLATLSLRDCKLQEAKFELITSEASYIHSLSVAVGHFLGSAELSECLGAQDKQWL
FSKLPEVKSTSERFLQDLEQRLEADVLRFSVCDVVLDHCPAFRRVYLPYVTNQAYQERTYQRLLLENPRF
PGILARLEESPVCQRLPLTSFLILPFQRITRLKMLVENILKRTAQGSEDEDMATKAFNALKELVQECNAS
VQSMKRTEELIHLSKKIHFEGKIFPLISQARWLVRHGELVELAPLPAAPPAKLKLSSKAVYLHLFNDCLL
LSRRKELGKFAVFVHAKMAELQVRDLSLKLQGIPGHVFLLQLLHGQHMKHQFLLRARTESEKQRWISALC
PSSPQEDKEVISEGEDCPQVQCVRTYKALHPDELTLEKTDILSVRTWTSDGWLEGVRLADGEKGWVPQAY
VEEISSLSARLRNLRENKRVTSATSKLGEAPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6806_a01.zip

Restriction Sites: SgfI-MluI

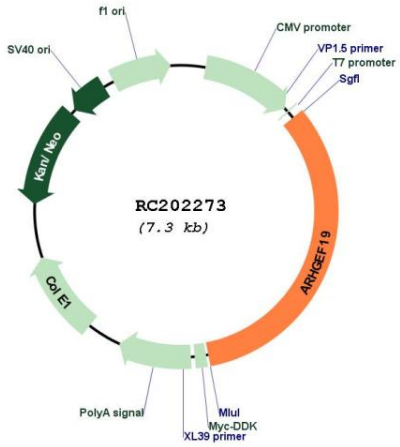
Cloning Scheme:



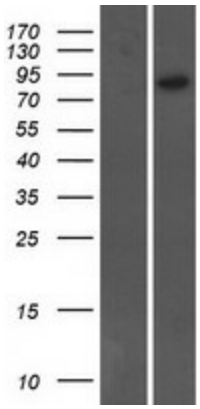
ACCN:	NM_153213
ORF Size:	2406 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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:	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_153213.5
RefSeq Size:	3044 bp
RefSeq ORF:	2409 bp
Locus ID:	128272
UniProt ID:	Q8IW93
Cytogenetics:	1p36.13
MW:	89.2 kDa
Gene Summary:	Guanine nucleotide exchange factors (GEFs) such as ARHGEF19 accelerate the GTPase activity of Rho GTPases (see RHOA, MIM 165390).[supplied by OMIM, Dec 2008]

Product images:



Circular map for RC202273



Western blot validation of overexpression lysate (Cat# [LY407142]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202273 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).