

Product datasheet for **RC208277**

ARHGDIG (NM_001176) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGDIG (NM_001176) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARHGDIG
Synonyms:	RHOGDI-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208277 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGGCTGGACGCGTGCGAGCTGGGGCGCAGCTGCTGGAGCTGCTCCGGCTGGCGCTGTGCGCC
GAGTCCTCCTGGCTGACAAGGAGGGTGGGCCGCCGCGCAGTGGACGAGGTGTTGGATGAGGCTGTGCCGA
GTACCGGGCGCCGGGAGGAAGAGCCTCTGGAGATCCGGCAGCTGGACCCGGACGACAGGAGCCTGGCC
AAGTACAAGCGGGTGTCTGCTGGGCCCCGCCACCGCCGTGGACCAAGCCTGCCCAATGTGCAGGTGA
CCAGGCTGACACTCCTGTCCGAACAGGCTCCGGGGCCCGTCGTCATGGATCTCACAGGGACCTGGCTGT
TCTGAAGGACCAGGTGTTTGTCCCTGAAGGAAGGTGTTGATTACAGAGTGAAGATCTCCTTCAAGGTCCAC
AGGGAGATTGTCAGCGGCCTCAAGTGTCTGCACCACACCTACCGCCGGGGCCTGCGCGTGGACAAGACCG
TCTACATGGTGGCAGCTATGGCCCGAGCGCCAGGAGTATGAGTTTGTGACTCCGGTGGAGGAAGCGCC
GAGGGTGCCTGGTGGCGGGCCCTATCTGGTGGTGTCCCTCTTACCGACGATGACAGGACGCCACCAC
CTGTCTGGGAGTGGGTCTCTGCATCTGCCAGGACTGGAAGGAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208277 protein sequence
Red=Cloning site Green=Tags(s)

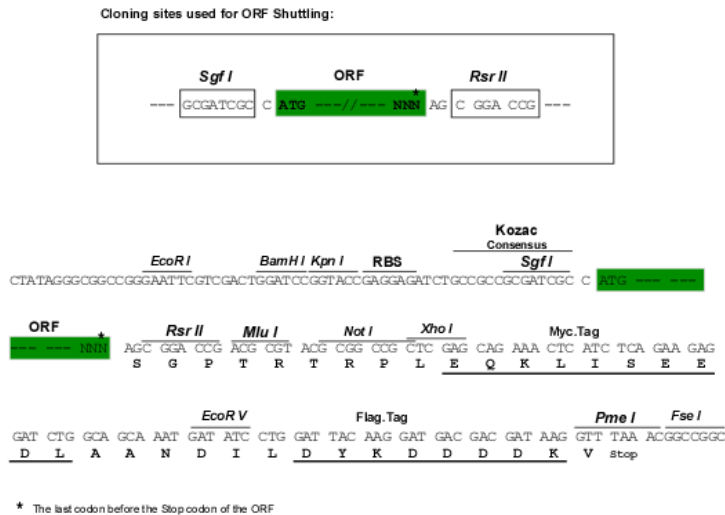
MLGLDACELG AQLLELLRLALCARVLLADKEGPPAVDEVLDEAVPEYRAPGRKSLLEIRQLDPDDRSLA
 KYKRVLLGPLPPAVDPSLPNVQVTRLTLLSEQAPGPVMDLTGDLAVLKDQVFLKEGVDIRVKISFKVH
 REIVSGLKCLHHTYRRGLRVDKTVYMGVSYGPSAQEYEFVTPVEEAPRGALVRGPYLVVSLFTDDDRTHH
 LSWEWGLCICQDWKD

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6616_b05.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001176

ORF Size: 675 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_001176.4](#)

RefSeq Size: 942 bp

RefSeq ORF: 678 bp

Locus ID: 398

UniProt ID: [Q99819](#)

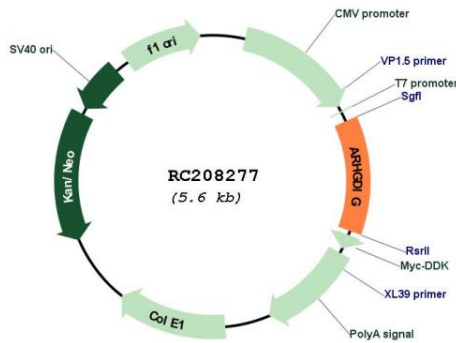
Cytogenetics: 16p13.3

Protein Families: Druggable Genome

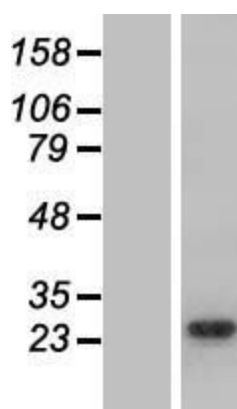
MW: 25.1 kDa

Gene Summary: The GDP-dissociation inhibitors (GDIs) play a primary role in modulating the activation of GTPases by inhibiting the exchange of GDP for GTP. See ARHGDI B (MIM 602843).[supplied by OMIM, Nov 2010]

Product images:



Circular map for RC208277



Western blot validation of overexpression lysate (Cat# [LY420085]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208277 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).