

Product datasheet for RC203496

D4 (ARHGDIB) (NM_001175) Human Tagged ORF Clone

Product data:

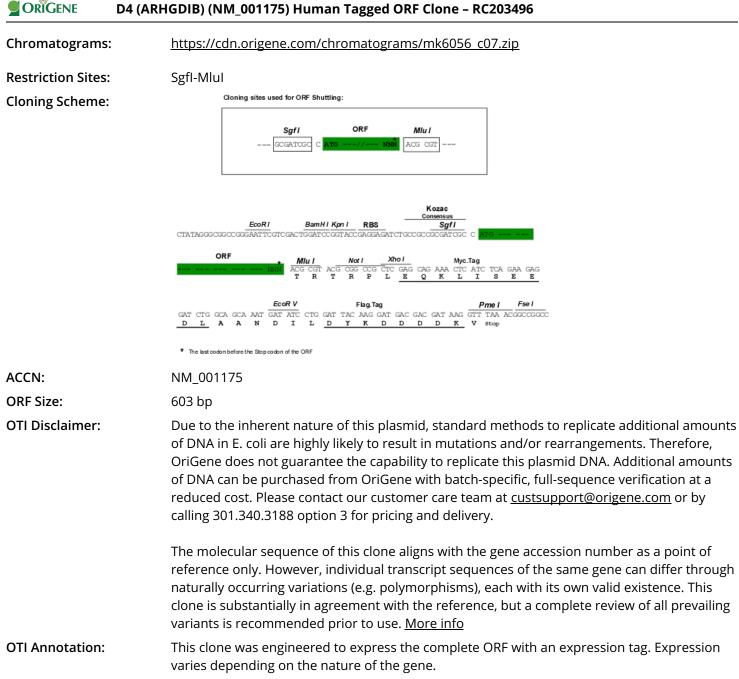
OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	D4 (ARHGDIB) (NM_001175) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	D4
Synonyms:	D4; GDIA2; GDID4; Ly-GDI; LYGDI; RAP1GN1; RhoGDI2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC203496 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGACTGAAAAAGCCCCAGAGCCACATGTGGAGGAGGATGACGATGATGAGCTGGACAGCAAGCTCAATT ATAAGCCTCCACCACAGAAGTCCCTGAAAGAGCTGCAGGAAATGGACAAAGATGATGAGAGAGTCTAATTAA GTACAAGAAAACGCTGCTGGGAGATGGTCCTGTGGTGACAGATCCGAAAGCCCCCAATGTCGTTGTCACC CGGCTCACCCTGGTTTGTGAGAGTGCCCCGGGACCAATCACCATGGACCTTACTGGAGATCTGGAAGCCC TCAAAAAGGAAACCATTGTGTTAAAGGAAGGTTCTGAATATAGAGTCAAAATTCACTTCAAAGTGAACAG GGATATTGTGTCAGGCCTGAAATACGTTCAGCACACCTACAGGACTGGGGTGAAAGTGGATAAAGCAACA TTTATGGTTGGCAGGCTATGGACCTCGGCCTGAGGAGTATGAGTTCCTCCACTCCAGTTGAGGAGGCTCCCA AGGGCATGCTGGCCCGAGGCACGTACCACAACAAGTCCTTCTTCACCGACGATGAGAAGCCACCT CAGCTGGGAGCTGGAACCTGTCGACTAAGAAGAGGAGTGGACAGAA ACGCCGTACGCGCCCGAGGCACGTACCACAACAAGTGGACAGAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGACAACAAGGTTTAA
Protein Sequence:	<pre>>RC203496 protein sequence Red=Cloning site Green=Tags(s) MTEKAPEPHVEEDDDDELDSKLNYKPPPQKSLKELQEMDKDDESLIKYKKTLLGDGPVVTDPKAPNVVVT RLTLVCESAPGPITMDLTGDLEALKKETIVLKEGSEYRVKIHFKVNRDIVSGLKYVQHTYRTGVKVDKAT FMVGSYGPRPEEYEFLTPVEEAPKGMLARGTYHNKSFFTDDDKQDHLSWEWNLSIKKEWTE</pre>
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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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).

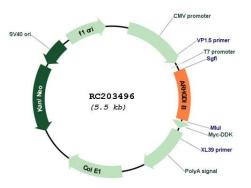
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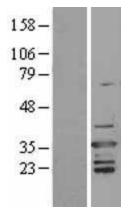
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 001175.2</u>
RefSeq Size:	1216 bp
RefSeq ORF:	606 bp
Locus ID:	397
UniProt ID:	<u>P52566</u>
Cytogenetics:	12p12.3
Domains:	Rho_GDI
Protein Families:	Druggable Genome
Protein Pathways:	Neurotrophin signaling pathway
MW:	23 kDa
Gene Summary:	Members of the Rho (or ARH) protein family (see MIM 165390) and other Ras-related small GTP-binding proteins (see MIM 179520) are involved in diverse cellular events, including cell signaling, proliferation, cytoskeletal organization, and secretion. The GTP-binding proteins are active only in the GTP-bound state. At least 3 classes of proteins tightly regulate cycling between the GTP-bound and GDP-bound states: GTPase-activating proteins (GAPs), guanine nucleotide-releasing factors (GRFs), and GDP-dissociation inhibitors (GDIs). The GDIs, including ARHGDIB, decrease the rate of GDP dissociation from Ras-like GTPases (summary by Scherle et al., 1993 [PubMed 8356058]).[supplied by OMIM, Dec 2010]

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Product images:

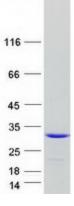


Circular map for RC203496



Western blot validation of overexpression lysate (Cat# [LY400471]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203496 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified ARHGDIB protein (Cat# [TP303496]). The protein was produced from HEK293T cells transfected with ARHGDIB cDNA clone (Cat# RC203496) using MegaTran 2.0 (Cat# [TT210002]).

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