

## Product datasheet for **RC204805**

### ARL5B (NM\_178815) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARL5B (NM_178815) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARL5B
Synonyms:	ARL8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204805 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCTGATCTTCGCCAACTGTGGAGCCTCTTCTGTAACCAAGAACACAAAGTAATTATAGTGGGAC  
TGGATAATGCAGGGAAAACCACCATTCTTTACCAATTCTTAATGAATGAAGTGGTTCATACTTCTCCAAC  
CATAGGAAGCAATGTTGAAGAAATAGTTGTGAAGAACACTCATTTTCTTATGTGGGATATTGGTGGTCAG  
GAGTCTCTGCGATCATCCTGGAACACATATTACTCAAATACAGAGTTCATCATTCTTGTGTTGATAGCA  
TTGACAGGGAACGACTAGCTATTACAAAAGAAGAATTATACAGAATGTTGGCTCATGAGGATTTACGGAA  
GGCTGCAGTCCTTATCTTTGCAAATAAACAGGATATGAAAGGGTGTATGACAGCAGCTGAAATCTCGAAA  
TACCTCACCCCTTAGTTCAATTAAGGATCATCCATGGCACATTCAATCCTGCTGTGCTCTCACAGGAGAAG  
GGTTATGCCAAGGTCTAGAGTGGATGACCTCCCGATTGGTGTGAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC204805 protein sequence Red=Cloning site Green=Tags(s)
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MGLIFAKLWSLFCNQEHKVIIVGLDNAGKTTILYQFLMNEVVHTSPTIGSNVEEIVVKNTHFLMWDIGGQ  
ESLRSSWNTYYSNTEFIIILVVDSIDRERLAIKKEELYRMLAHEDLRKAAVLIFANKQDMKGCMTAAEISK  
YLTLSIKDHPWHIQSCCALTGEGLCQGLEWMTSRIGVR

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Chromatograms:	<a href="https://cdn.origene.com/chromatograms/mk6426_c01.zip">https://cdn.origene.com/chromatograms/mk6426_c01.zip</a>
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_178815

ORF Size: 537 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\\_178815.5](#)

RefSeq Size: 3589 bp

RefSeq ORF: 540 bp

Locus ID: 221079

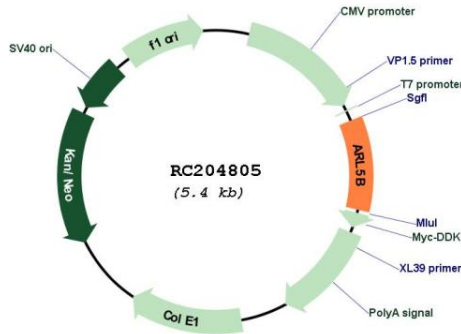
UniProt ID: [Q96KC2](#)

**Cytogenetics:** 10p12.31

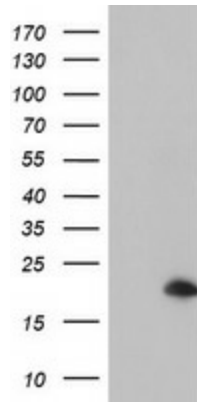
**MW:** 20.4 kDa

**Gene Summary:** ARL5B (ARL8) belongs to a family of proteins that are structurally similar to ADP-ribosylation factors (ARFs; see MIM 103180). ARLs and ARFs are part of the RAS superfamily of regulatory GTPases.[supplied by OMIM, Nov 2010]

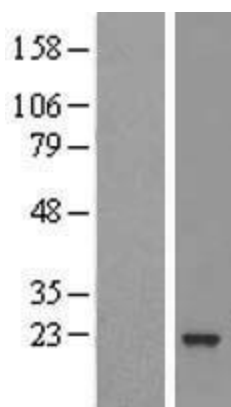
**Product images:**



Circular map for RC204805



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ARL5B (Cat# RC204805, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ARL5B(Cat# [TA504151]). Positive lysates [LY405801] (100ug) and [LC405801] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY405801]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204805 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).