

Product datasheet for **RG201516**

ARL5A (NM_001037174) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ARL5A (NM_001037174) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ARL5A
Synonyms: ARFLP5; ARL5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201516 representing NM_001037174
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAATTCCTTCACTAGAATATGGAGACTGTTCAATCACCAGGAGCACAAAGTTATCATTGTTGGGC
TGGATAATGCAGGGAAAACCTACCATTCTTACCAATTTTCTATGAATGAAGTTGTACATACATCTCCTAC
AATAGGAAGTAATGTAGAAGAGATAGTGATTAATAATACCGTTTCCTAATGTGGGATATTGGTGGCCAA
GAATCTCTTCGTTCTTCTGGAACACTTACTATACTAACACAGAGTTTGAATAGTTGTTGTGGACAGTA
CAGACAGAGAGAGGATTTCTGTAAGTAGAGAAGAACTCTATAAAATGTTAGCGCATGAGGACCTAAGAAA
AGCTGGATTGCTGATTTTGTCTAATAAACAAGATGTTAAAGAATGCATGACTGTAGCAGAAATCTCCAG
TTTTTGAAGCTAACTTCTATTAAGATCACCAGTGGCATATCCAGGCATGCTGTGCTCTAACTGGCGAGG
GATTGTGCCAAGGACTTGAATGGATGATGTCACGACTTAAGATTAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201516 representing NM_001037174
Red=Cloning site **Green**=Tags(s)

MGILFTRIWRLFNHQEHKVIIVGLDNAGKTTILYQFSMNEVVHTSPTIGSNVEEIVINNTRFLMWDIGGQ
ESLRSSWNTYYTNEFVIVVVDSTDRERISVTREELYKMLAHEDLRKAGLLIFANKQDVKECMTVAEISQ
FLKLTSIKDHQWHIQACCALTGEGLCQGLEWMSRLKIR

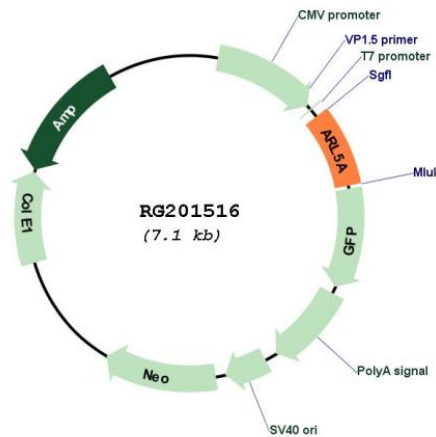
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001037174

ORF Size: 426 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:	<ol style="list-style-type: none">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:	<u>NM_001037174.1, NP_001032251.1</u>
RefSeq Size:	2913 bp
RefSeq ORF:	429 bp
Locus ID:	26225
UniProt ID:	<u>Q9Y689</u>
Cytogenetics:	2q23.3
Gene Summary:	The protein encoded by this gene belongs to the ARF family of GTP-binding proteins. With its distinctive nuclear/nucleolar localization and interaction with HP1 alpha, the protein is developmentally regulated and may play a role(s) in nuclear dynamics and/or signaling cascades during embryonic development. Alternative splicing results in multiple transcript variants encoding different isoforms. This gene has multiple pseudogenes. [provided by RefSeq, Jul 2008]