

## Product datasheet for **RG201681**

### ARMER (ARL6IP1) (NM\_015161) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ARMER (ARL6IP1) (NM\_015161) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** ARMER  
**Synonyms:** AIP1; ARL6IP; ARMER; SPG61  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG201681 representing NM\_015161  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGAGGGAGATAATCGCAGCACCAACCTGCTGGCTGCAGAGACTGCAAGTCTGGAAGAACAGCTGC  
AAGGATGGGGAGAAGTGATGCTGATGGCTGATAAAGTCTCCGATGGGAAAGAGCCTGGTTCCACCTGC  
CATCATGGGTGTGGTTTCTTTGGTGTCTGATTATCTACTATCTAGATCCATCTGTTCTGTCCGGCGTT  
TCCTGTTTGTATGTTTTGTGCTTGGCTGACTACCTTGTTCCATTCTAGCGCCTAGAATTTTGGCT  
CCAATAAATGGACCACTGAACAACAGCAAAGATTCCATGAAATTTGCAGCAATCTAGTAAAACTCGACG  
CAGAGCTGTGGGTGGTGGAAACGCCTCTCACACTAAAGGAAGAAAAACCTAAGATGTACTTCATGACC  
ATGATCGTTTCCCTTGCTGCGGTTGCTTGGGTGGGACAACAAGTCCACAACCTGCTTCTCACCTACCTGA  
TAGTGACTTCCTTACTATTGCTTCTGGAATAACCAACATGGAATCATTTTGAAGTACATTGGAATGGC  
CAAGAGGGAGATAAACAACCTTCTCAACAAAAAGAAAAGAAAAACGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG201681 representing NM\_015161  
Red=Cloning site Green=Tags(s)

MAEGDNRSTNLLAAETASLEEQLQGWEVMLMADKVLRWERAWFPPAIMGVVSLVFLIIYYLDPSVLSGV  
SCFVMFLCLADYLPILAPRIFGSNKWTTEQQRFHEICSNLVKTRRRVGVWKRFLTLKEEKPKMYFMT  
MIVSLAAVAWVGQVHNLLTYLIVTSLLLPLGNQHGILKYIGMAKREINKLLKQKEKKNE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_015161

**ORF Size:** 609 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_015161.3](#)

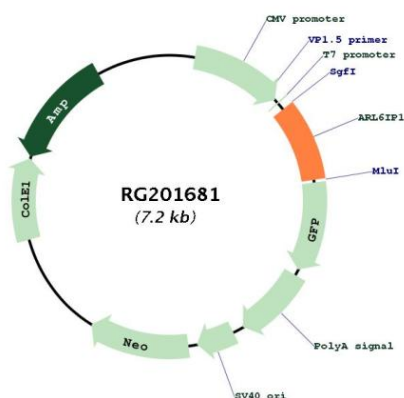
**RefSeq Size:** 2280 bp

**RefSeq ORF:** 612 bp

**Locus ID:** 23204

UniProt ID:	<u>Q15041</u>
Cytogenetics:	16p12.3
Protein Families:	Transmembrane
Gene Summary:	This gene belongs to the ARL6ip family and encodes a transmembrane protein that is predominantly localized to intracytoplasmic membranes. It is highly expressed in early myeloid progenitor cells and thought to be involved in protein transport, membrane trafficking, or cell signaling during hematopoietic maturation. Mutations in this gene are associated with spastic paraplegia 61 (SPG61). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2015]

## Product images:



Circular map for RG201681