

## Product datasheet for **SC119377**

### ARL 1 (ARL1) (NM\_001177) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARL 1 (ARL1) (NM_001177) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARL 1
Synonyms:	ARFL1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119377 sequence for NM_001177 edited (data generated by NextGen Sequencing)

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ATGGGTGGCTTTTCTCAAGTATATTTTCCAGTCTGTTTGGAACTCGGGAAATGAGAATT  
TTAATTTTGGGATTAGATGGAGCAGGAAAAACCACAATTTTGTACAGATTACAAGTGGGA  
GAAGTTGTTACTACTATACCTACCATTGGATTTAATGTAGAGACGGTGACGTACAAAAAC  
CTTAAATTCGAAGTCTGGGATTTAGGAGGACAGACAAGTATCAGGCCATACTGGAGATGT  
TACTATTCAAACACAGATGCAGTCATTTATGTAGTAGACAGTTGTGACCGAGACCGAATT  
GGCATTTCGAAATCAGAGTTAGTTGCCATGTTGGAGGAAGAAGAGCTGAGAAAAGCCATT  
TTAGTGGTGTGTTGCAATAAACAGGACATGGAACAGGCCATGACTTCCTCAGAGATGGCA  
AATTCAC TTGGGTTACCTGCCTTGAAGGACCGAAAATGGCAGATATTCAAAACGTCAGCA  
ACCAAAGGCACCGCCTTGATGAGGCAATGGAATGGTTAGTTGAAACATTA AAAAGCAGA  
CAGTAA
```

Clone variation with respect to NM\_001177.4



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_001177 unedited</p> <pre>GTTCCAATTTGTATACGACTCCTATAGGCGGCCCGCAATTCGCACGAGGGAGGAAACCG CCTCGGAGCTGCAGCCGAAGGCCAAGGAATCACTGAAGATCGGCGAGGGAGGACAGGGGG TTCATCATGGGTGGCTTTTTCTCAAGTATATTTCCAGTCTGTTTGGAACTCGGGAAATG AGAATTTAATTTGGGATTAGATGGAGCAGGAAAAACCAATTTGTACAGATTACAA GTGGGAGAAGTTGTTACTACTATACCTACCATTGGATTTAATGTAGAGACGGTGACGTAC AAAAACCTTAAATCCAAGTCTGGGATTTAGGAGGACAGACAAGTATCAGGCCATACTGG AGATGTTACTATTCAAACACAGATGCAGTCATTTATGTAGTAGACAGTTGTGACCGAGAC CGAATTGGCATTTCCAAATCAGAGTTAGTTGCCATGTTGGAGGAAGAAGACTGAGAAAA GCCATTTTANGTGGTGTGCAAATAAACAGGACATGGAACAGGCCATGACTTCCTCAGA GATGGCAAATCACTTGGGTACCTGCCTTGAAGGACCGAAAAATGGCAGATATTCAAAAC GTCAGCAACCAAAGGCACCGCCTTGATGAGGCAATGGAATGGGTTAGTNTGAAACATTA AAAAGCAGACAGTAATTNCAGTCCATTCTTCTCCCCTGAAATGAAGACTACATCACNT CTCTCCCTTNTGGAACANNGTCAGTGTACTTCACACTACTAGATGTTAACTATATGATT ATTGGCATATACTGACTGACTGCNATATTTGTAGTAATAGGGAAAATAGTATTTAGTTGG AGGATAAAATGATCGATCACCTGAATGTCTATGTATGNNAAATATNCTTCTTGCTTTC TGGGGTAAGGATTATNCTATTGNATGGGATCTATTCAAAAACAGTCTATTA</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_001177 unedited</p> <pre>NTTTAGCTTGGCCGCGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGGTTTTA ATCAATACATATTTATTGAGTGCCTACTGTGTGCCAGGTGCACCACACTAGATGCAACGG ATACTAACAGTAAATAAGATACGGTCCCTGCCCTCAGAGCTTACATTTCAACAGTTTAAA GTGCATCTCAGGTATTTAGATAACAGAAGTAATTCTACCACTCTCAAATTTTTTTTTTTT AATGCAAGACACAACACAATCATAGGCCAGAGTTATAAAATACAATGTTAGAAAGAAACG TTTGGTATCATTCTGCCAGATCCCATTTTACAGAAAAGAAACTACAGGAGTGGCCATTTG CACCTATGTTCTGATTTCAAGTTTGGTGTGTTTACCCATTGCCAGGCCTCTCATAAAACAA TATTCAGATTTGCCATGTATATCAATATCCAAACGCTGGTAGTATACCTGTGCAGTTG TCTCCTGTAGACAAGGACCATATAATTTATAGCTTATTTAAGTGTCCACTTTCTTTATC CCATCCTATTCTTTGTGATAAACAGAGGGATCAGGCTTAACCAAGTGTGAACCTTGGG GCAACTTCATGCCCTAGGATTCAGATGGCCAGCGGCTACATGCCGGGTCTGCCTGCCAG GACCTTACTTCCATTNTTGCAGTTNTCCTGGACTGCCGGGAGGCAGCTGTACAAGCTT TATAAGCCTCAGGCTGTAAGTGAACCTGCTTTCTGCATTTTCCAGCCATGTGCCATTGAC CAGNAGTGAAACTCAGTATAAATTGCAAGGGCTACTTTGTGAGAGACAAAATCTATCCTA CTGGTTCAACTATGACATATTCTGAATGGCCTATGCCAGGCGCCCTACCAGAAGTGGGA CATAAAT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001177
<b>Insert Size:</b>	4200 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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\\_001177.3](#), [NP\\_001168.1](#)

**RefSeq Size:** 3199 bp

**RefSeq ORF:** 546 bp

**Locus ID:** 400

**UniProt ID:** [P40616](#)

**Cytogenetics:** 12q23.2

**Domains:** RAB, SAR, ARF, arf

**Gene Summary:** The protein encoded by this gene belongs to the ARL (ADP-ribosylation factor-like) family of proteins, which are structurally related to ADP-ribosylation factors (ARFs). ARFs, described as activators of cholera toxin (CT) ADP-ribosyltransferase activity, regulate intracellular vesicular membrane trafficking, and stimulate a phospholipase D (PLD) isoform. Although, ARL proteins were initially thought not to activate CT or PLD, later work showed that they are weak stimulators of PLD and CT in a phospholipid dependent manner. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2014]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.