

## Product datasheet for **SC111231**

### **ARL5A (NM\_012097) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARL5A (NM_012097) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARL5A
Synonyms:	ARFLP5; ARL5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111231 sequence for NM_012097 edited (data generated by NextGen Sequencing)

```
ATGGGAATTCTCTTCACTAGAATATGGAGACTGTTCAATCACCAGGAGCACAAGTTATC
ATTGTTGGGCTGGATAATGCAGGAAAACCTACCATTCTTTACCAATTTTCTATGAATGAA
GTTGTACATACATCTCCTACAATAGGAAGTAATGTAGAAGAGATAGTGATTAATAATACA
CGTTTCCTAATGTGGGATATTGGTGGCCAAGAATCTCTTCGTTCTTCTGGAACACTTAC
TATACTAACACAGAGTTTGTAAATAGTTGTTGTGGACAGTACAGACAGAGAGAGGATTTCT
GTAAGTAGAGAAGAAGCTATAAAATGTTAGCGCATGAGGACCTAAGAAAAGCTGGATTG
CTGATTTTGGCTAATAAACAAGATGTTAAAGAATGCATGACTGTAGCAGAAATCTCCAG
TTTTTGAAGCTAACTTCTATTAAGATCACCAGTGGCATATCCAGGCATGCTGTGCTCTA
ACTGGCGAGGGATTGTGCCAAGGACTTGAATGGATGATGTCACGACTTAAGATTAGATGA
```

Clone variation with respect to NM\_012097.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_012097 unedited  
 GTTCGCATTTGTATACGACTCACTATAGCGCGCCGCAATCGGCACGAGGAGGACGGTGG  
 CCCGCGAGGCTCGTCGCAGACAACGCGCGCGGATGTCCGCGAGCCAGGCGAGTGCCGCG  
 GCGGCAGCGCGGGCCCTTGCGCGCGCAGGGCGGCTGGGCTTCGGCCTCCCTCCGGTT  
 CCCTGGAAGCGGGCCCGCACCAGCGCGGGAGCAGCAGAGGGCGGAGGCTCCAGCGCG  
 TCTCTCTCTCCCTCAGCCTGAGCCGGGGAAGCCAGGCGGCCGGGTGTCTGGAGGG  
 GGGGGTCCGCTGCCCGAGAATGGGAATTCTCTCACTAGAATATGGAGACTGTTCAATC  
 ACCAGGACACAAGTTATCATTGTTGGGCTGGATAATGCAGGAAAACTACCATTCTTT  
 ACCAATTTTCTATGAATGAAGTTGTACATACATCTCTACAATAGGAAAGTAATGTAGAAG  
 AGATAGTGATTAATAATACACGTTTCTAATGTGGGATATTGGTGGCAAGAATCTCTTC  
 GTTCTTCTGGAACACTTACTATACTAACACAGAGTTTGAATAGTTGTTGTGGACAGTA  
 CAGACAGAGAGAGGATTCTGTAAGTACAGAACTCTATAAAATGTTAGCGCATGAGG  
 ACCTAAGAAAAGCTGGATTGCTGATTTTTGCTAATAAACAAGATGTTAAGAATGCATGA  
 CTGTAGCAGAAAATCTCCAGTTTTTGAAGCTAACTTCTATTACAGATCACCAGTGGCATA  
 TCCAGCATGCTGTGCTAACTGGCGAGGGATTGTGCCAAGACTTGNATGGATGATGT  
 CACGACTTAAGATTAGAGATCTCTACTGACCTTCTCTCATAGATCTCGATAAATGAAGCG  
 CTGGACCTTACCTGAAGCTGCA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_012097 unedited  
 ATGAACCGCGGCACCGCAATCTATAGTCGAGTTTTTTTTTTTTTTTTTAAACAAGCAGC  
 TCATCGATTTGGGAGGTTGGTTAGTACAATACAGAGAACACAGAGAGAAAGTATAAAATG  
 GCACTGAACACTAATGCCAATACTTATCTCATTGTGGTTATAACGAAGGATATTATTATT  
 TGTGTTATTTTTGTCTGGAACATAAATCAATGCCATTAACCTTGAACCTTGAGGTATATACA  
 CAATACACACACAACCTTAAGCAAAATACTTTTCATAAGTAACATTACATTTTAAATAT  
 TGGAAACATTGCAATATCTGTGCTGATTTGTATTCTGACTTAATGGAACAAGAAGAAAAT  
 AACATTCAACTAGGGAGGGTTAACTGATAATAAAGCTCTTAAAATTCAAAATGTCTTCC  
 TCTCCCTTTGACTTACCATAGGCTACACAATGTCCTGAGAGGATTCATTATGAGAAAAA  
 TGTCAATCACAGCTTCAATAACTTACTTTGGAAAAAACTAATGAGAAAGCAAAGTGAAG  
 GTGAGACTTCATCTTTGTTTTCAAATAAGTGGTCTTAATTTTTCTCTTATAGAAAAAGT  
 TAAATCAGTTTTATTATAAATATATCTAAACCATTAATTTTTGCAGCTTTCAGGTAAGT  
 CCAGACTTCATTTATACAAAATCTATGAGAAGAGGTCAGTAGAGATCATCTAATCTTAA  
 GTCGTGACATCATCCATTCAAGTCTTGGCACAATCCCTCGCCAGTTATAGCACACGATG  
 CCTGGATATGCCACTGGNTGATCTTTANTAGAAGTTAGCTTCAAAACTGGGAGATTTCTG  
 CTACATCATGCATTCTTTACATNCTGTTATTAGCAAATCAGCATNCAGCTTTCTTAAGC  
 CTCATGCGCTACATTTATAGAGTTCTCTCTAGTACAGAATCTTCTCTGCTGTCTGCCACA  
 CACTATACAACTGGGTAGATAAAAAGGTTCAAAAAACA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_012097

**Insert Size:**

1460 bp

**OTI Disclaimer:**

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).

**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\\_012097.2](#), [NP\\_036229.1](#)

**RefSeq Size:** 1546 bp

**RefSeq ORF:** 540 bp

**Locus ID:** 26225

**UniProt ID:** [Q9Y689](#)

**Cytogenetics:** 2q23.3

**Domains:** SAR, ARF, arf

**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 HP1alpha, 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]

Transcript Variant: This variant (1) encodes the longer isoform (1).