

## Product datasheet for **SC110683**

### ARL6 (NM\_032146) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARL6 (NM_032146) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARL6
Synonyms:	BBS3; RP55
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110683 sequence for NM_032146 edited (data generated by NextGen Sequencing)

```
ATGGGATTGCTAGACAGACTTTTCAGTCTTGCTTGGCCTGAAGAAGAAGGAGGTTTCATGTT
TTGTGCCTTGGGCTAGATAAATAGTGGCAAACGACGATCATTAACTAAACCTTCA
AATGCTCAATCTCAAAATATCCTTCCAACAATAGGATTCAGCATAGAGAAATCAAATCA
TCCAGTTTGTCAATTTACAGTGTGGACATGTCAGGTCAAGGAAGATACAGAAATCTCTGG
GAACACTATTATAAAGAAGGCCAAGCTATTATTTTGTTCATTGATAGTAGTATGATAGATTA
AGAATGGTTGTGGCCAAAGAAGAACTCGATACTTCTGAATCATCCAGATATTAACAC
CGTCGAATCCAATCTTATTCTTTGCAAATAAAATGGATCTTAGAGATGCAGTGACATCT
GTAAAAGTGTCTCAGTTGCTGTGTTTAGAGAACATCAAAGATAAACCTGGCATATTTGT
GCTAGTGATGCCATAAAGGAGAAGGCTTGCAAGAAGGTGTAGACTGGCTTCAAGATCAG
ATCCAGACTGTGAAGACATGA
```

Clone variation with respect to NM\_032146.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_032146 unedited  
 TCCTATAGGCGGCGCGAAATTCGACGAGGCAGGAAATAGCAGCTCACCTGCCACCTG  
 TGCACACATTTTTCTTCAATGTATAGTTCCTCGGCGCGCCTTGACCTTTTCCCGGAGCT  
 CTTCAATCCCAGAAAGCTATAGCACAAACGGCTGAATCGCCAGGACCCCGGGGAGGCGTG  
 GCTTCAGGACCGAAGAAGCTCCTGTTGCCAAGGGAACGGTGCCTGCCAAGGCGCCTGT  
 CAGCGACTGATGCACAGACTGCTGCAGAGGCTGCCGTTTTCCCAACTTCTAGAGACGGC  
 TTTGCTCATTACCAGGCATCCTTCCCATGTAGGCATCGAGAAGAAGGCTGAGGGACCCCTC  
 GCACCAGATTTCCATCCCGGAGACCGATACGAGTGCCTCCATTCTGTTGCCAGCTCCTG  
 CGCCCTCCGGAATAACCTCAAAAACCAGCTGGTTTGAAAATATTTGAATCACATTATGGG  
 ATTGCTAGACAGACTTTTCAGTCTTGCTTGGCCTGAAAAGAANGAGGTTTCATGTTTTGTGC  
 CTTGGGCTAATAATAGTGGCAAACGACGATCATTAACTTAAACCTTAAATGCTCAAT  
 TCAAATATCCTTCCACAATANGATTACATAGAGAATTCATCCAGTTTGCATTAA  
 AGTGTGACATGNTANGTCAGGAAAATACAGAAATCTCTGGGACACTATATAAGGAAGC  
 CAGCTATATTTTTGCATTGAAAGNANGATAATAAAAAAGGGGTGGGGCCAAGAAAACC  
 TCAAACCTTCTGATATCCAGATTTAACACCGGCAATNCAATCTTATCTTTGAATAAAA  
 GATCTAAAAAACANGACTGTAAGAGGGNTCANNNNCTGTTGTAAAAACACAAAAAAC  
 CTGCCATTTTGGTCTGGAGCCAAAAAGAAAGTGTAAAAAGGGGAACGTTTTAAAAAAA  
 AACAGGAAAAA

**3' Read Nucleotide Sequence:**

>OriGene 3' genomic read for NM\_032146 unedited  
 TGTACCGCGCACGCAATCTAGTATCGAGNTTTTTTTTTTTTTTTTTTTTTTTTGAACA  
 GAGTGTACTCTGTTGCCAGGCTGGAGTGCAGTAGTGAATCTTGGCTCACTGCAACCT  
 CCACCTCTTGGGTTCAAGTGATTCTCATGCCTCAGCCTCCTGAGTAGCTGGGACCACAGG  
 CACATGCCACCACACCTGGCTAATTTTTGTATTTTAGTAGAGACGAGGTTTCCCCACAT  
 TGCCAGGCTGGTCGGAACACCTGTCCTCAAGTAATCCACCTGCTTTGGCCTCCCAACG  
 GCCGATTACCTGCTGGGATTACAGGGATGAGCCACCATGCCTGGCCTAACAACTCTTAA  
 AAATGTAAAATACTTCAAATACTACAAGGCTATAGTAGCCAAAACAGCATGGTACTG  
 GCACAAAACAGAGATATAGACCAATGGAACAGAACAGAGCCCTCAGAAATAATACCACA  
 CATCTACAACCATCTGATCTTTGACAAACCTGACAAAAACAAGAAATAGGGAAAGGATTC  
 CCTATTTAATAAATGGTGTAGGAAAACCTGGCTAGCCATATGTAGAAAGCTGAAACTGGA  
 TCCCTTCTTACACCTTATACAAAAATTAATTCAAGATGGATTAAGACTTAAATGTTAG  
 ACCTAAAACCATAAAAACCCTACAAGAATAACCTATGCATACCATTACAGGACATAGGCAT  
 GGGCAAGGACTTCATGTCTAAAACCCAAAAGCTATGGCAACAAAAGCAAATGACAAA  
 TGGGATCTAATTAATCTAAAGGGCTTCTGCACAGCANAAGAACTACCATCAGAGTGGAC  
 AAAGCACCTACAGAAATGGGAGAAATATTTTGCATCTACTCATCTGACAAAGGGGTATAC  
 CACGATCTACAAGAACCAACAATTTACAGAAAAACACACCCCTCACAAGTGGCGAA  
 GACATNACAGACCTTCTCAAGAGATATCTGCCGCCACAGACCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_032146

**Insert Size:**

4180 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\\_032146.3](#), [NP\\_115522.1](#)

**RefSeq Size:** 1408 bp

**RefSeq ORF:** 561 bp

**Locus ID:** 84100

**UniProt ID:** [Q9H0F7](#)

**Cytogenetics:** 3q11.2

**Domains:** SAR, ARF, arf

**Gene Summary:** The protein encoded by this gene belongs to the ARF-like (ADP ribosylation factor-like) sub-family of the ARF family of GTP-binding proteins which are involved in regulation of intracellular traffic. Mutations in this gene are associated with Bardet-Biedl syndrome (BBS). A vision-specific transcript, encoding long isoform BBS3L, has been described (PMID: 20333246). [provided by RefSeq, Apr 2016]  
Transcript Variant: Variants 1, 2 and 3 encode the same 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.