

## Product datasheet for **SC324435**

### ARF1 (NM\_001024227) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ARF1 (NM_001024227) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARF1
Synonyms:	PVNH8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001024227.1  
 GGAGCAGCAGCCTCTGAGGTGTCCTGGCCAGTGTCTTCCACCTGTCCACAAGCATGGG  
 GAACATCTTCGCCAACCTCTTCAAGGGCCTTTTGGCAAAAAGAAAATGCGCATCCTCAT  
 GGTGGGCTGGATGCTGCAGGGAAGACCACGATCCTCTACAAGCTTAAGCTGGGTGAGAT  
 CGTGACCACCATCCCACCATAGGCTTCAACGTGGAAACCGTGGAGTACAAGAACATCAG  
 CTTCACTGTGTGGGACGTGGGTGGCCAGGACAAGATCCGGCCCTGTGGCGCCACTACT  
 CCAGAACACACAAGGCCCTGATCTTCGTGGTGGACAGCAATGACAGAGAGCGTGTGAACGA  
 GGCCCGTGAGGAGCTCATGAGGATGCTGGCCGAGGACGAGCTCCGGGATGCTGTCTCTCT  
 GGTGTTTCGCCAACAGCAGGACCTCCCCAACGCCATGAATGCGGCCGAGATCACAGACAA  
 GCTGGGGCTGCACTACTACGCCACAGGAACTGGTACATTAGGCCACCTGCGCCACCAG  
 CGGCGACGGGCTCTATGAAGGACTGGACTGGCTGTCCAATCAGCTCCGGAACCAGAAGTG  
 AACGCGACCCCCCTCCCTCTCACTCCTCTTGCCTCTGCTTTACTCTCATGTGGCAAACG  
 TGGCGCTCGTGGTGTGAGTGCCAGAAGCTGCCTCCGTGGTTTGGTACCCTGTGCATCGC  
 ACCGTGCTGTAATGTGGCAGACGACGCTGCGGCCAGGCTTTTTATTTAATGTAATAG  
 TTTTGTTCCTCAATGAGGCAGTTTCTGGTACTCCTATGCAATATTACTCAGCTTTTTTTA  
 TTGAAAAAGAAAATCAACTACTGTTCAGTGTGAGAGGGGATGTAGGCCCATGGGCA  
 CCTGGCCTCCAGGAGTCCGTGTGTTGGGAGAGCCGGCCACGCCCTTGGCTTTAGAGCTGT  
 GTTGAAATCCATTTTGGTGGTGGTTTTAACCAAAACCTCAGTGCATTTTTTAAAATAGT  
 TAAGAATCCAAGTCGAGAACACTTGAACACACAGAAGGGAGACCCCGCTAGCATAGATT  
 TGCAGTTACGGCTGGATGCCAGTCGCCAGCCAGCTGTCCCTCGGGAACATGAGGTG  
 GTGGTGGCGCAGCAGACTGCGATCAATTCTGCATGGTACAGTAGAGATCCCCGCAACTC  
 GCTTGTCTTGGTCCACCTGCATTCCATAGCCATGTGCTTGTCCCTGTGCTCCCACGGT  
 TCCCAGGGGCCAGGCTGGGAGCCACAGCCACCCCACTATGCCGACAGCCGCCCTACCCA  
 CCTTCAGGCAGCCTATGGGACGCAGGGCCCATCTGTCCCTCGGTGCGCGTGTGGCCAGA  
 GTGGGTCCGTCGTCCCCAACACTCGTGCTCGCTCAGACACTTTGGCAGGATGTCTGGGGC  
 CTCACCAGCAGGAGCGCTGCAAGCCGGGACGGCGGTCCACCTAGACCCACAGCCCTCG  
 GGAGCACCCACCTCTGTGTGTGATGTAGCTTTCTCCCTCAGCCTGCAAGGTCCGAT  
 TTGCCATGAAAAAGACAACCTCTACTTTTTTCTTTTGTATTTTGATAAACACTGAAGCT  
 GGAGCTGTAAATTTATCTTGGGAAACCTCAGAACTGGTCTATTTGGTGTGCGTGAAC  
 TCTTACTGCTTTCAATACAGATTAGTAATCAACTGTTTTGTATACTTGTTCAGTTTT  
 CATTTGACAAAACAGCACTGTAATTATAGCTATTAGAATAAAATCTCTTAATAATAAA  
 AAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_001024227

**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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001024227.1](#), [NP\\_001019398.1](#)

**RefSeq Size:** 2020 bp

**RefSeq ORF:** 546 bp

**Locus ID:** 375

**UniProt ID:** [P84077](#)

**Cytogenetics:** 1q42.13

**Protein Pathways:** Vibrio cholerae infection

**Gene Summary:** ADP-ribosylation factor 1 (ARF1) is a member of the human ARF gene family. The family members encode small guanine nucleotide-binding proteins that stimulate the ADP-ribosyltransferase activity of cholera toxin and play a role in vesicular trafficking as activators of phospholipase D. The gene products, including 6 ARF proteins and 11 ARF-like proteins, constitute a family of the RAS superfamily. The ARF proteins are categorized as class I (ARF1, ARF2 and ARF3), class II (ARF4 and ARF5) and class III (ARF6), and members of each class share a common gene organization. The ARF1 protein is localized to the Golgi apparatus and has a central role in intra-Golgi transport. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (1) represents the longest transcript.