

Product datasheet for **SC119130**

ARF1 (NM_001658) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARF1 (NM_001658) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARF1
Synonyms:	PVNH8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119130 sequence for NM_001658 edited (data generated by NextGen Sequencing)

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ATGGGGAACATCTTCGCCAACCTCTTCAAGGGCCTTTTTGGCAAAAAGAAATGCGCATC
CTCATGGTGGGCCTGGATGCTGCAGGGAAGACCACGATCCTCTACAAGCTTAAGCTGGGT
GAGATCGTGACCACCATTCACCATAGGCTTCAACGTGAAAACCGTGGAGTACAAGAAC
ATCAGCTTCACTGTGTGGGACGTGGGTGGCCAGGACAAGATCCGGCCCCTGTGGCGCCAC
TACTTCCAGAACACACAAGGCCTGATCTTCGTGGTGGACAGCAATGACAGAGAGCGTGTG
AACGAGGCCCGTGAGGAGCTCATGAGGATGCTGGCCGAGGACGAGCTCCGGGATGCTGTC
CTCCTGGTGTTCGCCAACAGCAGGACCTCCCCAACGCCATGAATGCGGCCGAGATCACA
GACAAGCTGGGGCTGCACTCACTACGCCACAGGAAGTGGTACATTCAGGCCACCTGCGCC
ACCAGCGCGACGGGCTCTATGAAGGACTGGACTGGCTGTCCAATCAGCTCCGGAACCAG
AAGTGA
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Clone variation with respect to NM_001658.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001658 unedited ATTTGTATACGACNACTATAGGCGGCCGGAATTCGGCACGAGGCAACGCCTGGCTNCGG ACAGCAGCCTCTGAGGTGCCCTGGCCAGTGTCTTCCACCTGTCCACAAGCATGGGGAA CATCTTCGCCAACCTCTCAAGGGCCTTTTGGCAAAAAAGAAATGCGCATCCTCATGGT GGGCCTGGATGCTGCAGGGAAGACCACGATCCTCTACAAGCTTAAGCTGGTGAGATCGT GACCACCATTCCCACCATAGGCTTCAACGTGAAACCGTGGAGTACAAGAATCAGCTT CACTGTGTGGGACGTGGGTGGCCAGGACAAGATCCGGCCCCTGTGGCGCCACTACTTCCA GAACACACAAGGCTGATCTTCGTGGTGGACAGCAATGACAGAGAGCGTGTGAACGAGGC CCGTGAGGAGCTCATGAGGATGCTGGCCGAGGACGAGCTCCGGGATGCTGTCTCNTGG TGTTCCGCAACAAGCAGGACCTCCCAACGCCATGAATGCGGCCGAGATCACAGACAAGC TGGGGTGCCTACTACGCCACAGAACTGGTACATTCANGCCACCTGCGCCACCACGGC GACGGGCTTATGAGGACTGGACTGGGCTGTCCAATCAGCTCCGGACCCAGAAGTGACGGC GACCCNCTCTTNTCACTCTNNTGCCTCTGNTTACTCTCATGTGGCAACGTCNGNNTC GGGGGGGGAGTGCAAAGCTGCTCCGGGGTTTTGGCAACCGGGCATTGACGGGCTGTT AATTGGGCAGACCAACCTGGCCAGCTTTNAATTATGAAAAAAATTTTTGTTCCAGAAAG GGAAGNTTTGGGACCCCTAGCATATATCAACTTTTTTTTTTTGAAAGAAATACCCCGGTTG CTTGCGGAGGAGGGGGGGCCCGGCCCTGCCAAAAAATTTA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001658 unedited TATGGACCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT AATAGTTAAGAGATTTTATTCTAATAGCTATAATTACAGTGTGTTTGTGCGAAATGAAA ACTGAAAAAAGTATACAAAACAGTTGATTACTAATCGTGTATTGAAAGCAGTAAGAGGT TCCACGACACCAATAGACCAGTTCTGAGTTTTCCCAAGATAAATTTAACAGCTCCAGC TTCAGTGTATCAAAATACAAAAGAAAAAGTAGAGTTGTCTTTTTCGATGGCAAATC GGACCCTTGCAGGCTGAGGGAGAGAAAGCTACATCACACACAGAGGTGGGGTGTCCCGA GGGGCTGTGGGTCTAGGTGGACCGCTGCCCGGCTTGCACGCGCTCCTGTGTTGAGGCC CCAGACATCCTGCCAAAGTGTCTGAGCGAGCAGAGTGTGGGGACGACGGACCCACTCT GGCCACACGGCGACCGAGGGACAGATGGGGCCCTGCGTCCCATAGGCTGCCTGAAGGTGG GTAGGGCGGCCTGCGGCATAGTGGGGTGGCTGTGGGCTCCCAGCTGGCCCTGGGAACC TTGGGAGCACAGGACAAGCACATGGCTATGGAATGCAGGGTGACCCAAGGACAAGCGAG TTGCGGGGATCTCTACTGTGACCATGCAAAATTGATCGCAGTCTGCTGCGCCACCACCAC CTCATGTTNCCGAGGGGAACAGCTGGGCTGGCGACTGGCATCCCAGCCGTAAGTCAAAAT TATGCTAGGCCGGGTCTCCCTTCTGTGTGTTCAAGGTTCTCGACTTGGATTCTTAAGT TTTAAAAAGCCCTGAAGTTGGGGTTAAAAACCAACCCCAATGC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001658
Insert Size:	1960 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_001658.3](#), [NP_001649.1](#)

RefSeq Size: 1901 bp

RefSeq ORF: 546 bp

Locus ID: 375

UniProt ID: [P84077](#)

Cytogenetics: 1q42.13

Domains: RAB, SAR, ARF, arf

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 (4) has an alternate and shorter 5' UTR, as compared to variant 1.