

## Product datasheet for **SC323909**

### ALIX (PDCD6IP) (NM\_013374) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ALIX (PDCD6IP) (NM_013374) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALIX
Synonyms:	AIP1; ALIX; DRIP4; HP95
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_013374.3  
 CTGTCAGCCAGTCAGTCCGCCAGTCCGCCAGCCAGTACCTCTCTCCTCGGCCCTCGT  
 AAGCTGTCCGCGGTCTGTTTGGCCGAACGGCGCGGAGGCGCTGATCATGGCGACATTC  
 ATCTCGGTGCAGCTGAAAAGACCTCAGAGGTGGACCTGGCCAAGCCGCTGGTGAAGTTC  
 ATCCAGCAGACTTACCCAAGCGCGGGGAAGAGCAGGCCAGTACTGCCGCGCGCGGAG  
 GAGCTCAGCAAGCTGCGCCGCGCCGAGTCGGTCGTCGGTGGACAAGCAGAGGGCGCG  
 CTCGAGACGCTCCTGAGATATTATGATCAGATTTGTTCTATTGAACCCAAATTCCTATT  
 TCTGAAAATCAGATCTGCTTGACATTTACCTGGAAGGATGCTTTTCGATAAAGTTCACTT  
 TTTGGAGGCTCTGTAAACTGGCTCTTGCAAGCTTAGGATATGAAAAGAGCTGTGTGTTG  
 TTCAATTGTGCAGCCTTAGCTAGCCAAATGCAGCAGAACAGAACCTGGATAATGATGAA  
 GGATTGAAAATCGCTGCTAAACATTACCAGTTTGTAGTGGTGCCTTTTTACATATTA  
 GAGACGGTTTTATCTGCCTTAAGTCGAGAGCCGACCGTGGACATATCTCCAGATACTGTT  
 GGGACCCTCAGTCTTATTATGCTGGCACAGGCTCAAGAAGTATTTTTTTAAAAGCCACA  
 AGAGATAAAAATGAAAGATGCCATCATAGCTAAATTGGCTAATCAGGCTGCAGATTATTT  
 GGTGATGCTTTCAAACAGTGTCAATACAAAGATACTCTCCCAAGGAGGTGTTCCCTGTC  
 TTGGCTGCAAAGCACTGTATCATGCAGGCCAATGCTGAGTACCATCAGTCTATCCTGGCA  
 AAACAGCAGAAGAAATTTGGAGAAGAAATGCAAGGTTACAGCATGCAGCAGAACTGATT  
 AAAACAGTGGCATCTCGCTATGATGAATATGTTAATGTGAAGGATTTTTCTGACAAAATC  
 AATCGTGCCCTTGCTGCAGCAAAGAAGGATAATGACTTCATTTATCATGATCGAGTTCCA  
 GACCTTAAAGATCTAGATCCTATTGGCAAAGCCACACTTGTGAAATCTACCCCGTCAAT  
 GTACCCATCAGTCAGAAATTTACTGATCTGTTTGAAGAAGTGGTCCCGTGCAGTACAG  
 CAGTCTTTGGCTGCCTATAATCAGAGGAAAGCCGATTTGGTTAACAGATCAATTGCTCAG  
 ATGAGAGAAGCCACCACTTTGGCAAATGGGGTGCAGTCTCCCTTAATCTCCAGCAGCA  
 ATTGAAGATGTGCTGGAGACACTGTACCTCAGTCTATATTGACTAAATCCAGATCTGTG  
 ATTGAACAGGGAGGCATCCAGACTGTTGATCAGTTGATTAAGAAGTGCCTGAATTA  
 CAACGAAATAGAGAAATCTAGATGAGTCATTAAGGTTGTTGGATGAAGAAGAAGCAACC  
 GATAATGATTTAAGAGCAAAATTTAAGGAACGTTGGCAAAGGACACCATCCAATGAAGT



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TATAAGCCTTTAAGAGCAGAGGGAACCAACTTCAGAACAGTTTTAGATAAAGCTGTGCAG  
GCAGATGGACAAGTGAAGAATGTTACCAGTCTCATCGTGACACCATCGTGCTTTTGTGT  
AAGCCAGAGCCTGAGCTGAATGCTGCCATCCCTTCTGCTAATCCAGCAAAGACCATGCAG  
GGCAGTGAGGTTGTAATGTCTTAAAATCCTTATTGTCAAATCTTGATGAAGTAAAGAAG  
GAAAGAGAGGGTCTGGAGAATGACTTGAATCTGTGAATTTTGACATGACAAGCAAGTTT  
TTGACAGCCCTGGCTCAAGATGGTGTGATAAATGAAGAAGCTCTTCTGTTACTGAACTA  
GATCGAGTCTATGGAGGCTTACAACCTAAAGTCCAAGAATCTCTAAAGAAACAGGAGGGA  
CTTCTTAAAAATATTCAGGTCTCACATCAGGAATTTTCAAAAATGAAACAATCTAATAAT  
GAAGCTAACTTAAGAGAAGAAGTTTTGAAGAATTTAGCTACTGCATATGCAAACTTTGTT  
GAACTTGTAGCTAATTTGAAGGAAGGCACAAAGTTTTACAATGAGTTGACTGAAATCCTG  
GTCAGGTTCCAGAACAAATGCAGTGATATAGTTTTTGCACGGAAGACAGAAAGAGATGAA  
CTCTTAAAGGACTTGCAACAAAGCATTGCCAGAGAACCTAGTGCTCCTTCAATTCCTACA  
CCTGCGTATCAGTCTCACCAGCAGGAGGACATGCACCAACTCTCCAACCTCCAGCGCCA  
AGAACCATGCCGCTACTAAGCCCCAGCCCCAGCCAGGCCTCCACCACCTGTGCTTCCA  
GCAAAATCGAGCTCCTTCTGCTACTGCTCCATCTCCAGTGGGGGCTGGGACTGCTGCGCCA  
GCTCCATCACAAACGCTGGCTCAGTCTCCTCCACAGGCGCAGGGACCACCCTATCCC  
ACCTATCCAGGATATCCTGGGTATTGCCAAATGCCATGCCATGCCATGGGCTATAATCCTTAT  
GCGTATGGCCAGTATAATATGCCATATCCACCAGTGATCACCAGAGTCTCGACAGGCT  
CCATACCCGGGACCCCAGCAGCCTTCATACCCCTTCCCTCAGCCCCACAGCAGTCTTAC  
TATCCACAGCAGTAATATGTCTGCTCAGCAGCTCAGCTGATTCAGATCAGAGGGAAGAA  
ATACCAACCCTGCAATAAGTGTACTAACTCTACGCTCTGGTTAATGTAATGACTCTCC  
TGGACTGAATGCAGTGTATAATTTCTGTCTACAGCTAGAAGCTGTGCCCCAGTCCACAT  
TTGATTACACATGTGAGATTTGCTGCTGAGTATAAACACTAGGTATAATAGGATTT  
GAAATTGCATTACAGTTCATAAAAATTGAAAATGAGAAAATTAACCTGCAAGTGAACAT  
TTGAAACGATTATACTTTCTACATAAGACATGGTTGGGACATCAGATACTTACAAAGATG  
GTTAAGTATGGATACTAGAGAAAATTAAGTTTTCTTTCTTTTGGTTTTATTGATTTGGT  
TTAATTTCCATTATGCTATTTTGCATAATCAAGGCACTGTAATCTTATAATTTTAAAAAT  
AAATTAAGAACAGTTGTCATTGTTATGTTTTGTTATTGATTCTCATTACTGTCTAA  
TTTTTTTTCTGGTATTAGTCTCATTGTATGTATATAAGTTAAACAGATACTGTTTTTA  
AGTGCATGAATAGTACAAGTTATTATCAAGGATGTTTTACAGGGAATCAAAGAATATT  
ATCATACTTTATCTTTCGTATGCTGATTAGTAAACGATTTTTGACATTTATTTAGAAAG  
TCCTATAATGTGGAAGAAACAAACAGTTGCTACCAAAGATGATGAAAATAAACATACAAA  
TAAATGTGTATATTTAATGTTTTATTGTTAGCTTCTCCAGAAAATTGATGCAAAATCTCG  
TAATAATCTTGCAATTTTTCCCATAACCTGGTTAAAATAAATACGCCATTGGCAATAA  
AAAAAAAAAAAAA

**Restriction Sites:**

ECoRI-NOT

**ACCN:**

NM\_013374

**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\\_013374.3](#), [NP\\_037506.2](#)

**RefSeq Size:** 6448 bp

**RefSeq ORF:** 2607 bp

**Locus ID:** 10015

**UniProt ID:** [Q8WUM4](#)

**Cytogenetics:** 3p22.3

**Domains:** BRO1

**Protein Families:** Druggable Genome

**Protein Pathways:** Endocytosis

**Gene Summary:** This gene encodes a protein that functions within the ESCRT pathway in the abscission stage of cytokinesis, in intraluminal endosomal vesicle formation, and in enveloped virus budding. Studies using mouse cells have shown that overexpression of this protein can block apoptosis. In addition, the product of this gene binds to the product of the PDCD6 gene, a protein required for apoptosis, in a calcium-dependent manner. This gene product also binds to endophilins, proteins that regulate membrane shape during endocytosis. Overexpression of this gene product and endophilins results in cytoplasmic vacuolization, which may be partly responsible for the protection against cell death. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. Related pseudogenes have been identified on chromosome 15. [provided by RefSeq, Jan 2012]

Transcript Variant: This variant (1) uses an alternate in-frame splice site in the central coding region, compared to variant 2, resulting in an isoform (1) that is shorter than isoform 2.