

Product datasheet for **SC115270**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115270 sequence for NM_013374 edited (data generated by NextGen Sequencing)

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ATGGCGACATTCATCTCGGTGCAGCTGAAAAAGACCTCAGAGGTGGACCTGGCCAAGCCG
CTGGTGAAGTTTCATCCAGCAGACTTACCCAAGCGGCGGGGAAGAGCAGGCCCACTACTGC
CGCGCGGCGGAGGAGCTCAGCAAGCTGCGCCGCGCCGAGTCGGTCGTCGCGCTGGACAAG
CACGAGGGCGCGCTCGAGACGCTCCTGAGATATTATGATCAGATTTGTTCTATTGAACCC
AAATTCACATTTTCTGAAAAATCAGATCTGCTTGACATTTACCTGGAAGGATGCTTTTCGAT
AAAGGTTCACTTTTGGAGGCTCTGTA AAACTGGCTCTTGCAAGCTTAGGATATGAAAAG
AGCTGTGTGTTGTTCAATTGTGCAGCCTTAGCTAGCCAAATTGCAGCAGAACAGAACCTG
GATAATGATGAAGGATTGAAAATCGCTGCTAAACATTACCAAGTTTGCTAGTGGTGCCCTTT
TTACATATTAAGAGACGGTTTTATCTGCCTTAAGTCGAGAGCCGACCGTGGACATATCT
CCAGATACTGTTGGGACCCTCAGTCTTATTATGCTGGCACAGGCTCAAGAAGTATTTTTT
TTAAAAGCCACAAGAGATAAAAATGAAAGATGCCATCATAGCTAAATTGGTAATCAGGCT
GCAGATTATTTTGGTGATGCTTTCAAACAGTGTCAATACAAAGATACTCTCCCAAGGAG
GTGTTCCCTGTCTTGGCTGCAAAGCACTGTATCATGCAGGCCAATGCTGAGTACCATCAG
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GCAGAACTGATTA AAAACAGTGGCATCTCGCTATGATGAATATGTTAATGTGAAGGATTTT
TCTGACAAAATCAATCGTGCCCTTGCTGCAGCAAAGAAGGATAATGACTTCATTTATCAT
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CTTCCAGCAGCAATTGAAGATGTGTCTGGAGACACTGTACCTCAGTCTATATTGACTAAA
TCCAGATCTGTGATTGAACAGGGAGGCATCCAGACTGTTGATCAGTTGATTAAAGAACTG
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ACTGAAATCCTGGTCAGGTTCCAGAACAATGCAGTGATATAGTTTTTGCACGGAAGACA
GAAAGAGATGAACTCTTAAAGGACTTGCAACAAAGCATTGCCAGAGAACCTAGTGCTCCT
TCAATTCCTACACCTGCGTATCAGTCCCTCACCAGCAGGAGGACATGCACCAACTCCTCCA
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CCTGTGCTTCCAGCAAATCGAGCTCCTTCTGCTACTGCTCCATCTCCAGTGGGGGCTGGG
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CCACCCTATCCCACCTATCCAGGATATCCTGGGTATTGCCAAATGCCATGCCATGGCC
TATAATCCTTATGCGTATGGCCAGTATAATATGCCATATCCACCAGTGTATCACCAGAGT
CCTGGACAGGCTCCGTACCCGGGACCCAGCAGCCTTCATACCCCTTCCCTCAGCCCCCA
CAGCAGTCTTACTATCCACAGCAGTAA

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Clone variation with respect to NM_013374.4
 1132 g=>a;1649 a=>g;2535 a=>g

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_013374 unedited GTTACATTTGTATACGACTCACTATAGGCGGCCGCAATTTCGCACGAGGCTGTAGCCA GTCAGTCCGCCAGTCCGCCAGCCAGTACCTCTCTCTCCTCGGCCCTCGTAAGCTGTCCG CGGTCTGTTTGGCCCGAACGGCGCGGAGGCGCTGATCATGGCGACATTCATCTCGGTGC AGNCTGAAAAAGACCTCAGAGGTGGACCTGGCCAAGCCGCTGGTGAAGTTCATCCAGCAG ACTTACCCAAGCGCGGGGAAGAGCAGGCCAGTACTGCCGCGCGGAGGAGCTCAGC AAGCTGCGCCCGCCGCGCAGTCCGTCGTCGCTGGACAAGCACAGGGCGCGCTCGAGACG CTCCTGAGATATTATGATCAGATTTGTTCTATTGAACCCAAATCCCATTTTCTGAAAAT CAGATCTGCTTGACATTTACCTGGAAGGATGCTTTCGATAAAAGTTCACTTTTTGGAGGC TCTGTA AAACTGGCTCTTGCAAGCTTAGGATATGAAAAGAGCTGTGTGTTGTTCAATTGT GCAGCCTTAGCTAGCCAAATTCAGCAGAACAGAACCTGNATAATGATGAAGGATTGAAA ATCGCTGTAAACATTACCAGTTTGCTAGTGGTGCCTTTTTACATATTAAGAGACGGTT NTATCTGCCTTAAGTCGAGAGCCGACCGTGGACATATCTCCAGATACTGTTGGGACCCTC AGTCTTATTATGCTGGCACAGGCTCAAGAAGTATTTTTTTTTAAAGCCACAAGAGATAAA TGAAAGATGCCATCATAGCTAAATGGNCTAATCANGCTGCAGATATTTTGGTGATGCCTT CAAACAGTGTCAATAACAAGATACTCTCCCAAGGNAGTGTCCCTGTCTTGCTGCAAG CACTGTATCATGCAG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_013374 unedited TGGACGCGGCCGCAATCTAGAGTCGAGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTAAACGGTCTTAAGAAATTTATTTTAAAATTATAAAATTTACAGGGCCTTGATT ATGCAAAATAGCATAATGAAATTAACCAAATCAATAAACCAAGAGAAAGAAAATTA ATTTTCTTTAGTATCCATACTTAAACCATTTTTGTAAGTATCTGATGTCCAACCATGTT TTATGTAAAAAGTATAATCGTTTCAAAGTTTCACTTGCAGGTTAAATTTCTCATTTTCA ATTTTTATGAACTGTAATGCAATTTCAAATCCTATTATACCTAGGGTTTATACTGCAACA GCAGCAATCTCACATGGGTAATCAAAATGGGGAACGGGGCACAGCTTCTAGCTGTAAC AGAAATATACACTGCATTCACTCAGGAGAGTACATTACATTAACCAGAGCGTAGAGTT TAGTACACTTATTGCAGGGCGGGTATTTCTTTCCCTCTGATCTGAATCAGCTGAGCTGGT GAGCAGACATATTACTGCTGGGATAGTAAAACCTGCTGTGGGGCTGAGGGAAGGGTAT GAAGCTGCTGGGTCCCGGTATGGAGCCCTGTCCAGCACTCTGGAGATACACTGGGGG ATATGGAATATTACTGCCATACGCATAAGGATTATAGCCCATGGCCATGGCGATT TGGAAATACCCAGGATATTCTGAAAAGGTGGGAAAAGGGTGGCCCTGCCCTGTGGAGG AGGAGCTGACCACGCCGTTGAGAGGAACTTGCGCCACATTCCCAGCCCCATGTAGATGG AACATAACAAAAGGACCTCGATTTGCTGGAAACACAGGGTGGAGCTGGCTGGGGCTGG GCTTAAAAGCGGATGGCCTTGTCGCCGAATTGGAGGAATTGCGCATGTCTCTGCGGAGA GACTGAACCCAGTGTAGGATAGAAG</p>
Restriction Sites:	ECORI-NOT
ACCN:	NM_013374
Insert Size:	3330 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_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.