

Product datasheet for SC116577

Arp3 (ACTR3) (NM_005721) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arp3 (ACTR3) (NM_005721) Human Untagged Clone
Tag:	Tag Free
Symbol:	Arp3
Synonyms:	ARP3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116577 sequence for NM_005721 edited (data generated by NextGen Sequencing)

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ATGGCGGGACGGCTGCCGCCTGTGTGGTGGACTGTGGCACGGGGTATACAAAACCTAGGA
TATGCTGGAAATACAGAACCACAGTTTATCATCCCTTCCTGTATTGCTATTAAGGAGTCA
GCAAAAGTGGGTGATCAAGCTCAAAGGAGGGTGTGAAAGGTGTTGATGACCTAGACTTC
TTCATTGGTGATGAAGCAATAGAAAAACCTACATATGCAACAAAGTGGCCAATCCGCCAT
GGTATAGTTGAAGATTGGGACTTAATGGAAAGGTTTATGGAGCAAGTGATCTTTAAATAT
TTAAGGGCAGAACCTGAAGACCATTATTTTCTTTTACTGAACTCCATTGAATACTCCA
GAAAACAGGGAATATACTGCTGAAATAATGTTTGAGTCCTCAATGTTCCAGGCTTGAC
ATTGCTGTGCAGGCTGTTCTTGCCTTAGCTGCATCTTGGACCTCAAGACAAGTAGGAGAA
CGGACGTTGACCGGTACGGTAATAGACAGTGGAGATGGTGTCACTCATGTCATTCTGTG
GCTGAAGGTATGTGATTGGCAGCTGTATTAACACATTCCAATCGCAGGACGAGATATA
ACATATTTTATTAGCAACTGCTGAGAGACCGAGAAGTAGGAATCCCTCCAGAACAATCC
TTGGAACTGCTAAGGCAGTAAAGGAGCGCTATAGTTATGTCTGCCAGATTTAGTAAAA
GAATTTAAACAAGTATGATACAGATGGGTCAAATGGATTAACAGTATACTGGAATCAAT
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ATCTTTTTTATCCAGAGTTTGTAATCCAGACTTTACACAACCTATCTCAGAAGTTGTA
GATGAAGTAATTCAGAATTGCTTATTGATGTCAGACGTCCTCTCTACAAGAATATTGTC
CTCTCTGGAGTTCAACCATGTTTCAGGGACTTTGGACGTCGCTTGCAAAGAGATTTGAAA
AGAATGTAGATGCCCGCTGAAATTAAGTGAGGAATTGAGTGGTGGTAGATTGAAGCCA
AAACCTATTGATGTACAAGTCAATACACACCACATGCAGCGATATGCAGTTTGGTTTGG
GGATCAATGCTGGCTTCCACGCCTGAGTTCTACCAAGTATGCCACACCAAAAAGGATTAT
GAAGAAATTGGACCTAGCATTGTCGTCACAATCCAGTGTGGAGTCATGTCGTAA

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Clone variation with respect to NM_005721.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005721 unedited
 TTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGGTTGCGGAAGTGATAGC
 CGCCGACCGAGCCTGCTGCTTTCTTGCTACTGCTTCGGCTTCCCGGTACCCCCGGACG
 GTGAAGGCGGCCAGCTGTGGATGGTCAGATAGCCCTTGCTCCCGCCCAATCTCTGG
 CCCCTAGCAGCACGGAGCAGACGGCGGCAGCAGCAGCAGCAGGCGAGGAGGAAGATGGCG
 GGACGGCTGCCGGCTGTGTGGTGGACTGTGCCACGGGGTATACAAAAGTAGGATATGCT
 GGAAATACAGAACCACAGTTTATCATCCCTTCTGTATTGCTATTAAGGAGTCAGCAAAA
 GTGGGTGATCAAGCTCAAAGGAGGGTATGAAAGGTGTTGATGACCTAGACTTCTTCATT
 GGTGATGAAGCAATAGAAAACTACATATGCAACAAAGTGCCCAATCCGCCATGGTATA
 GTTGAAGATTGGGACTTAATGGAAAGTTTATGGAGCAAGTGATCTTTAAATATTTAAGG
 GCAGAACCTGAAGACCATTATTTTCTTTGACTGAACCTCCATTGAATACTCCAGAAAAC
 AGGGAATATACTGCTGAAATAATGTTTGGAGTCTTCAATGTTCCAGGCTTGACATTGC
 TGTGCANGCTGTTCTTGCCTTAGCTGCATCTTGGACCTCAAGACAGTANGAGAACGGACG
 TTGACCGTACCGGTATAGACAGTGGAGGATGGTGTCACTCATGTATTCTGTGGCTGA
 AGGGGATGTGATTGGCAGCTGTATTAACACATTCATCGCAGGACGAGATATACATAAT
 TTATTCAGCACTGCTGAGAGACCGAAAGTAGGAATTCTCCAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005721 unedited
 GCACGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGGG
 AATTCAGTTTTAATTTATTTTCATCACTTTTTTCTTCATAATCCAGATATTTTAAATGC
 AAAGAAAATTAACTTCAATGATATGTTTCAGGGACTGGCACTAAAAAATTTTCAAAGT
 CAAATGAGTTATACAAATGAAAATATCAAATGGAGATCCAGTTATCAAAATGAAAGCACT
 CAACATATTAAGTTTCAACAAGTATTTGTATTGAGCACATTACAAAAGTCAGCTTGCTAA
 CTGTTGGGATTTTAAAGAACTATTGCAAAAAGCCTGAAAAAATAAATTTATTAGTTAACT
 TATAAAGAGATTAAGAGGCTGAAACAAGTATTAAGAAAGAAATTTGTGCCTTTATTA
 TAAAGGCTTTAAATATGCCAATTTTGATAAATATTGGTGGTGTGTTTGTGTTTTATAAA
 AAATGACACTACAGAAGTCAACTGTTGTTCCCAACTCTTGGCTTACTCTTCTTTTAA
 GCAAGAAACAGAAATGCGAGTAATCAGAAAGCACTAGCAGGCATCAGTTAATCCAAGATAC
 TAGCTCTTATTTCAAAGCACTTGCAAGAAAACCTTTGGGGGGAAGGGGCGGAGAGG
 GATGGAACCACTCCATAAATACTGGAATCCCATGAGTGTGATGCCAAGTCTCATGAGGC
 TATTTTTTGAATTTATCCTTTACTTGGACATGGTTTTTTTCCCTCAAATACAATTTTTCTT
 TGACTTTNTTCTCAAGTATAAAGATGAAATTAACAAGCTCTTGACTGCACACTAN
 AAGTGTACAATCAGCATATAGAGCTTCTACCACTGATAAACCCATCGATCTNGATAATCA
 TTATATACAAATATCGGCACAGAAAGACTAAACCACTTCTTGTACCCTAGATCAATAT
 CATCTAGAAAACCAACCTTCTC

Restriction Sites:

NotI-NotI

ACCN:

NM_005721

Insert Size:

2550 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_005721.3](#), [NP_005712.1](#)

RefSeq Size: 2728 bp

RefSeq ORF: 1257 bp

Locus ID: 10096

UniProt ID: [P61158](#)

Cytogenetics: 2q14.1

Domains: ACTIN

Protein Families: Druggable Genome

Gene Summary: The specific function of this gene has not yet been determined; however, the protein it encodes is known to be a major constituent of the ARP2/3 complex. This complex is located at the cell surface and is essential to cell shape and motility through lamellipodial actin assembly and protrusion. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Mar 2013]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer 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.