

Product datasheet for **SC127153**

Arp2 (ACTR2) (NM_005722) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arp2 (ACTR2) (NM_005722) Human Untagged Clone
Tag:	Tag Free
Symbol:	Arp2
Synonyms:	ARP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127153 sequence for NM_005722 edited (data generated by NextGen Sequencing)

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ATGGACAGCCAGGGCAGGAAGGTGGTGGTGTGCGACAACGGCACC GGTTTGTGAAGTGT
GGATATGCAGGCTCTAACTTTCCAGAACACATCTTCCCAGCTTTGGTTGGAAGACCTATT
ATCAGATCAACCACAAAGTGGGAAACATTGAAATCAAGGATCTTATGGTTGGTGTATGAG
GCAAGTGAATTACGATCAATGTTAGAAGTAACTACCCTATGGAAAATGGCATAGTACGA
AATTGGGATGACATGAAACACCTGTGGGACTACACATTTGGACCAGAGAAACTTAATATA
GATACCAGAAATTGAAAATCTTACTCACAGAACCTCCTATGAACCAACCAAAAACAGA
GAGAAGATTGTAGAGTAATGTTTGAACCTTACCAGTTTTCCGGTGTATATGTAGCCATC
CAGGCAGTTCTGACTTTGTACGCTCAAGGTTTATTGACTGGTGTAGTGGTAGACTCTGGA
GATGGTGTGACTCACATTTGCCAGTATATGAAGGCTTTTCTCTCCCTCATCTTACCAGG
AGACTGGATATTGCTGGGAGGGATATAACTAGATATCTTATCAAGCTACTTCTGTTGCGA
GGATACGCCTTCAACCACTCTGCTGATTTTGAACGGTTCGCATGATTAAGAAAAACTG
TGTTACGTGGGATATAATATTGAGCAAGAGCAGAAACTGGCCTTAGAAACCACAGTATTA
GTTGAATCTTATACACTCCCAGATGGACGTATCATCAAAGTTGGGGGAGAGAGATTTGAA
GCACCAGAAGCTTTATTTAGCCTCACTTGATCAATGTTGAAGGAGTTGGTGTGCTGAA
TTGCTTTTTAACACAATTAGGCAGCTGACATTGATACCAGATCTGAATTCTACAAACAC
CTTAAACAGCTTTACTTAGAACGAGTTTTGAAGGTTGATGTGAAAAAATTTCTAAATTT
AAGATCCGATTGAAGACCCACCCCGCAGAAAGCACATGGTATTCTGGGTGGTGCAGTT
CTAGCGGATATCATGAAAGACAAAGACAACCTTTGGATGACCCGACAAGAGTACCAAGAA
AAGGGTGTCCGTGTGCTAGAGAACTTGGTGTGACTGTTTCGATAA

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Clone variation with respect to NM_005722.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005722 unedited</p> <pre>TTGTATACGACTCACTTAGGGCGGCCGCGACATTCGCACGAGGGAAGACGCAAGAGGAAG AATAGAAACGGCCGGCGCGGTGGCTGTAGGTTGTGCGGCTGCAGCGGCTCTTCCCTGG GCGGACGATGGACAGCCAGGGCAGGAAGGTGGTGGTGTGCGACAACGGCACCGGTTTGT GAAGTGTGGATATGCAGGCTCTAACTTCCAGAACACATCTTCCAGCTTTGGTTGGAAG ACCTATTATCAGATCAACCACCAAAGTGGGAAACATTGAAATCAAGGATCTTATGGTTGG TGATGAGGCAAGTGAATTACGATCAATGTTAGAAGTTAACTACCCTATGGAAAATGGCAT AGTACGAAATTGGGATGACATGAAACACCTGTGGGACTACACATTTGGACCAGAGAAACT TAATATAGATACCAGAAATTGTAATAATCTTACTCACAGAACCTCTATGAACCCAAACAA AAACAGAGAGAAGATTGTAGAGGTAATGTTTAACTTACCAGTTTTCCGGTGTATATGT AGCCATCCAGGCAGTTCTGACTTTGTACGCTCAAGGTTTATTGACTGGTGTAGTGGTAGA CTCTGGAGATGGTGTGACTCACATTTGCCAGATATGAAGGCTTTTCTCTCCCTCATCTT ACCAGGAGACTGGATATTGCTGGGAGGGATATACTAGATATCTTATCAAGCTACTTCTG TTGCGAGGATACGCTTCAACCACTCTGCTGNATTTGAAAACGTTTCGCATGATTAAGAA NAACTGTGGTACGTGGGATATAATATTGAGCAAGAGCAAAAACCTGGCCTTANAAACACAG NATTAGTTGATCTTATACACTTCAAGGACGTATATTCAAANTGGGGGAAAAAGATTGA AACACCAAAACTTATTTAGCC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005722 unedited</p> <pre>ACTTCCAGGGCCAGNAGAGCACTGGGGAGGGTACAGGGATGCCACCCGGGATCTGTT CAGGAAACAGCTATGACCGCGGCCCAATCTAGAGTCGAGNNNTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTGGACCTTGAAAAAATCTGGTTTTATTTTCTCAATC AAAATGAAGTATTTTCATGTTAATTTAACTGGTTAGCTTCCACTGGTATCTCAAGATAC TTTCCAGATTTTAAACGTCCTCAAACCTGGGTAAGTTAAACCCCAAATCATGTTTTA AAGAAAAAAGTTTAAATGGAAGACTAATGGCTTGGGGCCTTACTAAATGGTTTTCTAAA AAAACCTTCTCAAATGTAGAAGTATTGGCCATTCTAATTTAAAAATTTTAAATTTTAA TTATTGNNAATTTAAGTTGCCATTGTTTCAAGAGCTAAAAATCAGATTGCTTTTTAAAC AAAATTTTTTTTTTCTGGGGGCTCATTCTTGACAACCCAGTTAAACATAATTCTCC ACCCCAATCCCAAATTTAAATGCATTTTGTCCCCTGGAATAGTAAAATTATAAAAAGGG ATTTCTAAATTAATATATATACCTAATGCACCCTTTTAACTGGCACATTTTCCCGCNG AATTATGAAATCCAACCAATTTCTTTCATTTCAGGGACAAACGATAAATGCTCTCCCATTTG GTTAAGAGTCCCTCCCTTCTTTTGGTGGTTTTCTCTNNNNCTTTTTTAAAATTTTGA CCAAGGAGCCCTGGAGGCAAGTAATCCCTTTTCCCTGAACCCCACTGGCAGAGAGACC GGGGCCCTACACCACCTCCCTTAAACAAGNCCCGTTCTAAAGGGGGGGGGGTTTATTT AAGACTTATTCAAAGNGCCTCTAAATCCTTTTCCANGATCTATACGGGCTTTTATGGGT TTTGGCTGTACACCTCC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005722
Insert Size:	3520 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_005722.2](#), [NP_005713.1](#)

RefSeq Size: 3863 bp

RefSeq ORF: 1185 bp

Locus ID: 10097

UniProt ID: [P61160](#)

Cytogenetics: 2p14

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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.

Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.