

Product datasheet for **RG203111**

Arp2 (ACTR2) (NM_005722) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arp2 (ACTR2) (NM_005722) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arp2
Synonyms:	ARP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203111 representing NM_005722 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAGCCAGGGCAGGAAGGTGGTGGTGTGCGACAACGGCACCGGTTTGTGAAGTGTGGATATGCAG
GCTCTAACTTTCCAGAACACATCTCCAGCTTTGGTTGGAAGACCTATTATCAGATCAACCACAAAGT
GGGAAACATTGAAATCAAGGATCTTATGGTTGGTATGAGGCAAGTGAATTACGATCAACGTTAGAAGTT
AACTACCCTATGAAAAATGGCATAGTACGAAATGGGATGACATGAAACACCTGTGGACTACACATTTG
GACCAGAGAACTTAATATAGATACCAGAAATGTAATACTACTCACAGAACCTCCTATGAACCCAAC
CAAAAACAGAGAGAAGATTGTAGAGGTAATGTTTGAAACTTACCAGTTTTCCGGTGTATATGTAGCCATC
CAGGCAGTTCTGACTTTGTACGCTCAAGGTTTATTGACTGGTGTAGTGGTACTCTGGAGATGGTGTGA
CTCACATTTGCCAGTATATGAAAGCTTTTCTCTCCCTCATCTTACCAGGAGACTGGATATTGCTGGGAG
GGATATAACTAGATATCTTATCAAGCTACTTCTGTTGCGAGGATACGCCTTCAACCACTCTGCTGATTTT
GAAACGGTTCGCATGATTAAGAAAACTGTGTTACGTGGGATATAATATTGAGCAAGAGCAGAACTGG
CCTTAGAAACACAGTATTAGTTGAATCTTATACACTCCCAGATGGACGTATCATCAAAGTTGGGGGAGA
GAGATTTGAAGCACCAGAAGCTTTATTTACGCTCACTTGATCAATGTTGAAGGAGTTGGTGTGCTGAA
TTGCTTTTTAACACAATTCAGGCAGCTGACATTGATACCAGATCTGAATTCTACAACACATTGTGCTTT
CTGGAGGTCTACTATGTATCCTGGCCTGCCATCACGGTTGGAACGAGAACTTAAACAGCTTTACTTAGA
ACGAGTTTTGAAGGGTGTGTGAAAACTTTCTAAATTTAAGATCCGCATTGAAGACCCACCCCGCAGA
AAGCACATGGTATTCTGGTGGTGCAGTTCTAGCGGATATCATGAAAGACAAAGACAACCTTTGGATGA
CCCACAAGAGTACCAAGAAAAAGGTGTCCGTGTCTAGAGAACTTGGTGTGACTGTTCGA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203111 representing NM_005722
Red=Cloning site Green=Tags(s)

MDSQGRKVVVCDNGTGFVKCGYAGSNFPEHIFPALVGRPIIRSTTKVGNIEIKDLMVGDEASELRSTLEV
 NYPMENGIVRNWDDMKHLWDYTFGPEKLNIDTRNCKILLTEPPMNPTKNREKIVEVMFETYQFSGVYVAI
 QAVLTLYAQGLLTVVVDSGDGVTHICPVYESFSLPHLTRRLDIAGRDITRYLIKLLLRGYAFNHSADF
 ETVRMIKEKLCYVGYNIEQEQLALETTVLVESYTLPDGRIIKVGGERFEAPEALFQPHLINVEGVGVAE
 LLFNTIQAADIDTRSEFYKHIVLSGGSTMYPGLPSRLERELKQLYLERVLKGDVEKLSKFKIRIEDPPRR
 KHMVFLGGAVLADIMKDKDNFWMTRQEYQEKGVRVLEKLGVTVR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005722

ORF Size: 1182 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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](#)

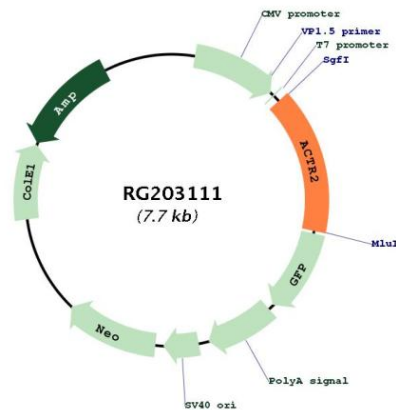
Cytogenetics: 2p14

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]

Product images:



Circular map for RG203111