

## Product datasheet for **RG208460**

### Arp3 (ACTR3) (NM\_005721) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arp3 (ACTR3) (NM_005721) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arp3
Synonyms:	ARP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208460 representing NM_005721 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGGACGGCTGCCGCCTGTGTGGTGGACTGTGGCACGGGGTATACAAAACAGGATATGCTGGAA  
ATACAGAACCACAGTTTATCATCCCTTCTGTATTGCTATTAAGGAGTCAGCAAAAGTGGGTGATCAAGC  
TCAAAGGAGGGTATGAAAGGTGTGATGACCTAGACTTCTTCATTGGTATGAAGCAATAGAAAAACCT  
ACATATGCAACAAAGTGCCAATCCGCCATGGTATAGTTGAAGATTGGGACTTAATGAAAGTTTATGG  
AGCAAGTATCTTTAAATATTTAAGGGCAGAACCTGAAGACCATTATTTCTTTTACTGAACTCCATT  
GAATACTCCAGAAAACAGGGAATACTGCTGAAATAATGTTTGGAGTCTTCAATGTTCCAGGCTGTAC  
ATTGCTGTGCAGGCTGTTCTTGCCTTAGCTGCATCTTGGACCTCAAGACAAGTAGGAGAACGGACGTTGA  
CCGGTACGGTAATAGACAGTGGAGATGGTGTCACTCATGTCACTTCTGTGGCTGAAGGGTATGTGATTGG  
CAGCTGTATTAACACATTCCAATCGCAGGACGAGATAAACATATTTTATTCAGCAACTGCTGAGAGAC  
CGAGAAGTAGGAATCCCTCCAGAACAATCCTTGGAAACTGCTAAGGCAGTAAAGGAGCGCTATAGTTATG  
TCTGCCAGATTTAGTAAAAGAATTTAAACAAGTATGATACAGATGGGTCAAAATGGATTAACAGTATAC  
TGGAATCAATGCTATCTCAAAGAAAGAGTTTCTATCGATGTTGGTTATGAGAGATTTTGGGACCTGAA  
ATCTTTTTTTCATCCAGATTTGCTAATCCAGACTTTACACAACCTATCTCAGAAGTTGTAGATGAAGTAA  
TTCAGAATTGTCTATTGATGTCAGACGCTCTCTACAAGAATATTGTCTCTCTGGAGGTTCAACCAT  
GTTCCAGGACTTTGGACGTCGCTTGCAAAGAGATTTGAAAAGAACTGTAGATGCCCGCTGAAATTAAGT  
GAGGAATTGAGTGGTGGTAGATTGAAGCCAAAACCTATTGATGTACAAGTCATTACACCCACATGCAGC  
GATATGCAGTTTGGTTGGAGGATCAATGCTGGCTTCCACGCCTGAGTTCTACCAAGTATGCCACACCAA  
AAAGGATTATGAAGAAATTGGACCTAGCATTGTGCTCACAATCCAGTGTGGAGTCATGTCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG208460 representing NM\_005721  
 Red=Cloning site Green=Tags(s)

MAGRLPACVVDCGTGYTKLGYAGNTEPQFIIPSCIAIKESAKVGDQAQRRVMKGVDLDFFIGDEAIEKP  
 TYATKWPIRHGIVEDWDLMERFMEQVIFKYLRAEPEDHYFLLTEPLNTPENREYTAEIFESFNVPGLY  
 IAVQAVLALAASWTSRQVGERTLTGTVIDSGDGVTHVIPVAEGYVIGSCKIHIPIAGRDITYFIQQLLRD  
 REVGIPPEQSLETAKAVKERYSYVCPDLVKEFNKYDTDGSKWIKQYTGINAI SKKEFSIDVGYERFLGPE  
 IFFHPEFANPDFQPISEVVDEVIQNCPI DVRRPLYKNI VL SGGSTMFRDFGRRLQRDLKRTVDARKLS  
 EELSGGRLKPKPIDVQVI THMQRYAVWFGGSM L A S T P E F Y Q V C H T K K D Y E E I G P S I C R H N P V F G V M S

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005721

**ORF Size:** 1254 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\\_005721.5](#)

**RefSeq Size:** 2728 bp

**RefSeq ORF:** 1257 bp

**Locus ID:** 10096

**UniProt ID:** [P61158](#)

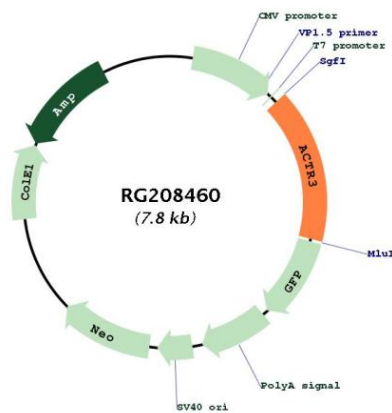
**Cytogenetics:** 2q14.1

**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]

### Product images:



Circular map for RG208460