OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC227590

Actr3 (NM_001205385) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actr3 (NM_001205385) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Actr3
Synonyms:	1200003A09Rik; Arp3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC227590 representing NM_001205385 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGGGACGGCTGCCGGCCTGTGTGGTGGACTGTGGCACGGGATATACAAAACTAGGATATGCTGGAA ATACAGAGCCACAGTTTATCATCCCATCATGTATTGCCATTAAAGAGTCTGCAAAAGTGGGTGACCAAGC CCAGAGGAGGGTGATGAAAGGCGTGGATGACCTAGACTTCTTCATTGGTGATGAAGCAATAGAAAAGCCC ACATATGCAACAAAGTGGCCAATTCGCCATGGTATAGTTGAAGACTGGGACTTAATGGAAAGGTTTATGG AGCAAGTGATTTTTAAATATTTAAGGGCAGAACCTGAAGATCATTACTTTCTTTTGACTGAACCTCCACT GAATACTCCAGAAAACAGGGAATATACTGCTGAAATAATGTTTGAATCCTTCAATGTTCCAGGCTTGTAC ATTGCTGTGCAGGCTGTTCTTGCCTTAGCTGCATCCTGGACCTCAAGACAAGTAGGAGAGCGGACGCTGA CGGGTACAGTAATAGACAGTGGAGACGGAGTCACTCATGTCATTCCTGTGGCTGAAGGATATGTTATCGG CAGCTGTATTAAACACATTCCAATCGCAGGAAGAGATATAACATATTTTATTCAGCAACTGCTGCGAGAC CGAGAAGTAGGAATCCCTCCTGAGCAGTCCTTGGAAACTGCGAAAGCAGTGAAGGAACGCTACAGTTATG TCTGCCCAGATTTAGTAAAAGAGTTTAACAAGTATGACACCGATGGGTCAAAGTGGATCAAACAGTACAC CGGAGTCAACGCCATCTCAAAGAAAGAGTTTTCTATTGATGTTGGCTATGAGCGATTCCTGGGACCCGAG ATCTTTTTCCATCCAGAGTTTGCTAATCCAGATTTTACACAACCTATCTCAGAAGTTGTAGATGAAGTCA TTCAGAATTGCCCCATTGATGTCCGGCGTCCTCTCTACAAGAACATTGTCCTCTCTGGTGGTTCAACCAT GTTCAGGGACTTTGGACGTCGTTTGCAAAGAGATTTGAAGAGAACTGTAGATGCCAGGCTGAAGTTAAGC GAGGAGCTGAGTGGTGGTAGATTGAAGCCCAAGCCTATTGATGTACAAGTTATTACACACCATATGCAGC GGTATGCAGTCTGGTTTGGAGGGTCAATGCTGGCTTCCACGCCTGAGTTCTACCAAGTATGCCACACCAA AAAGGATTATGAAGAAATTGGACCTAGCATTTGTCGTCACAATCCAGTGTTTGGAGTCATGTCCTAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001205385
Insert Size:	1257 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001205385.1, NP_001192314.1
RefSeq Size:	2554 bp
RefSeq ORF:	1257 bp
Locus ID:	74117
UniProt ID:	Q99JY9
Cytogenetics:	1 E2.3
Gene Summary:	ATP-binding component of the Arp2/3 complex, a multiprotein complex that mediates actin polymerization upon stimulation by nucleation-promoting factor (NPF). The Arp2/3 complex mediates the formation of branched actin networks in the cytoplasm, providing the force for cell motility. Seems to contact the pointed end of the daughter actin filament. In addition to its role in the cytoplasmic cytoskeleton, the Arp2/3 complex also promotes actin polymerization in the nucleus, thereby regulating gene transcription and repair of damaged DNA. The Arp2/3 complex promotes homologous recombination (HR) repair in response to DNA damage by promoting nuclear actin polymerization, leading to drive motility of double-strand breaks (DSBs). Plays a role in ciliogenesis.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1, 2 and 3 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.