

Product datasheet for RC200738

ACTR1A (NM_005736) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACTR1A (NM_005736) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACTR1A
Synonyms:	ARP1; Arp1A; CTRN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200738 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTCTACGATGTGATCGCCAACAGCCTGTGCGTATCGACAACGGATCCGGTGTGATTAAGCTG
GTTTTGCTGGTGATCAGATCCCCAAATACTGCTTTCCAAACTATGTGGCCGACCCAAGCAGCTTCGTG
CATGGCAGGAGCCCTTGAAGGCGACATCTTCATTGGCCCCAAAGCTGAGGAGCACCGAGGGCTGCTTCA
ATCCGCTATCCCATGGAGCATGGCATCGTCAAGGATTGGAACGACATGGAACGCATTTGGCAATATGTCT
ATTCTAAGGACCAGCTGCAGACTTCTCAGAGGAGCATCTGTGCTCCTGACTGAGGCGCCTTTAAACCC
ACGAAAAACCGGAACGAGCTGCCGAAGTTTTCTCGAGACCTCAATGTGCCCGCTCTTTTCATCTCC
ATGCAAGCTGTACTCAGCCTTACGCTACAGGCAGGACCACAGGGGTGGTGTGATTCTGGGGATGGAG
TCACCCATGCTGTGCCATCTATGAGGGCTTGGCCATGCCCACTCCATCATGCGCATCGACATCGCGGG
CCGGGACGTCTCTCGCTTCTGCGCCTCTACCTGCGTAAGGAGGGCTACGACTTCCACTCATCTCTGAG
TTTGAGATTGTCAAGGCCATAAAAGAAAGAGCCTGTTACCTATCCATAAACCCCCAAAAGGATGAGACGC
TAGAGACAGAGAAAGCTCAGTACTACCTGCCTGATGGCAGCACCATTGAGATTGGTCTTCCCGATTCCG
GGCCCCTGAGTTGCTCTTCAGGCCAGATTTGATTGGAGAGGAGAGTGAAGGCATCCACGAGTCTGGTG
TTCGCCATTCAGAAGTCAGACATGGACCTGCGGCGCAGCTTTTCTAACATTGCTCCTCAGGAGGCT
CTACCTGTTCAAAGTTTTGGTGACAGGCTCCTGAGTGAAGTGAAGAACTAGCTCCAAAAGATGTGAA
GATCAGGATATCTGCACCTCAGGAGAGACTGTATTCCACGTGGATTGGGGCTCCATCCTTGCTCCCTG
GACACCTTAAAGAAGATGTGGTCTCCAAAAGGAATATGAGGAAGACGGTGCCCGATCCATCCACAGAA
AAACCTTC

ACGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC200738 protein sequence
Red=Cloning site Green=Tags(s)

MESYDVIANQPVVIDNGSGVIKAGFAGDQIPKYCFPNYVGRPKHVRVMAGALEGDIFIGPKAEHRLLS
 IRYPMEHGIVKDWDMERIWQYVYSKDQLQTFSEEHPVLLTEAPLNPRKNRERAAEVFFETFNPALFIS
 MQAVLSLYATGRITGVLDSDGDVTHAVPIYEGFAMPHSIMRIDIAGRDRVSRFLRLYLKKEGYDFHSSE
 FEIVKAIKERACYLSINPQKDETELEKAQYYLPDGGSTIEIGPSRFRAPPELLFRPDLIGEESEGIHEVLV
 FAIQKSDMDLRRTLFSNIVLSSGGSTLFGKFGDRLLSEVKKLAPKDVKIRISAPQERLYSTWIGGSILASL
 DTFKKMWVSKKEYEEDGARSIHRTF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6128_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_005736

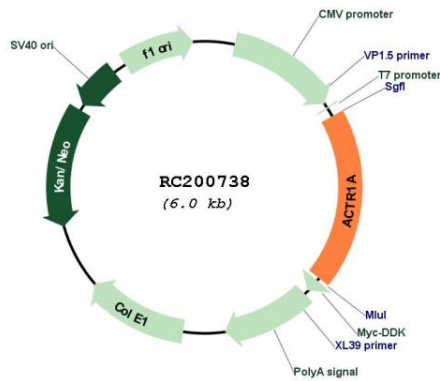
ORF Size: 1128 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

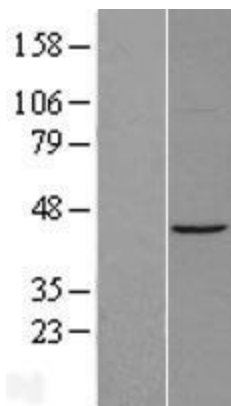
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<ol style="list-style-type: none">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_005736.4
RefSeq Size:	2891 bp
RefSeq ORF:	1131 bp
Locus ID:	10121
UniProt ID:	P61163
Cytogenetics:	10q24.32
Domains:	ACTIN
MW:	42.6 kDa
Gene Summary:	This gene encodes a 42.6 kD subunit of dynactin, a macromolecular complex consisting of 10-11 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein. It is involved in a diverse array of cellular functions, including ER-to-Golgi transport, the centripetal movement of lysosomes and endosomes, spindle formation, chromosome movement, nuclear positioning, and axonogenesis. This subunit is present in 8-13 copies per dynactin molecule, and is the most abundant molecule in the dynactin complex. It is an actin-related protein, and is approximately 60% identical at the amino acid level to conventional actin. [provided by RefSeq, Jul 2008]

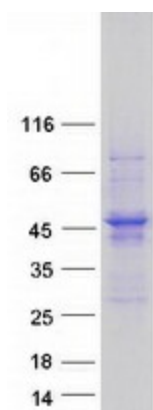
Product images:



Circular map for RC200738



Western blot validation of overexpression lysate (Cat# [LY401749]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200738 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ACTR1A protein (Cat# [TP300738]). The protein was produced from HEK293T cells transfected with ACTR1A cDNA clone (Cat# RC200738) using MegaTran 2.0 (Cat# [TT210002]).