

Product datasheet for MR218692

Actl7b (NM_025271) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actl7b (NM_025271) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Actl7b
Synonyms:	Gm26657; Tact1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218692 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCACAAAGAACAGCCCTAGCCCTAAGCCCATGGGCACAGCCAGGGCGACCCTGGAGAGGCAGGAA
CACTGCCAGCACCCGAGGCTGCTGGCATCCGGGACACAGGTTCCACTCAACTGAAGACAAAACCCAAAGAA
AATACGGAAGATCAAGGCGCTGGTCATTGACCTGGGTTCCAGTACTGTAAGTGGGCTATGCAGGAGAG
CCGAGGCCACCTATTTTCATCTCCTCTACCGTGGGCAAGCGCAGCGCTGAGATGGCTGCGGATGCTGGAG
ACAACCTCAAGGAGACATACGTAGGCCATGAGCTGCTCAACATGGAGGCATCTCTGAAGCTGGTTAACCC
ACTGAAGCACGGAGTTGTGGTGGACTGGGATTGTATCCAGAACATCTGGGAGTACATCTCCACACCCGCT
ATGAAGATCATGCCGGAAGAGCATGCGGTGCTGGTGTCCGACCCTCCGCTCAGCCCCACCAGCAACCCGGG
AGAAGTACGCTGAGCTCCTGTTGAGACCTTCGGCATCCCTGCCATGCATGTGACCTCCCAGGCGCTGCT
GTCCATCTACTCATATGGCAAGACCTCCGGCTTGGTGGTGGAGAGCGGACACGGCGTGTGCGATGTGGTG
CCCATCTCTGAAGGGGACCTGCTGCCGGGCTGCCAGCCGTGTAGACTATGCGGGCTGCGACCTCACCA
ACTACCTCATGCAGCTACTCAATGAGGCAGGCCACAAGTTTTCAGACGACCACCTGCACATCATAGAACA
CATCAAGAAGAAGTGTGCTATGCTGCGCTGCTGCCGAGGAGGATGAGCCTGGGCCTAGACGAGCTG
CATGTGGACTACGAGCTCCAGATGGGAAGATCATCACCATCGGCCAGGAGCGCTTCCGCTGCTCTGAGA
TGCTCTTCAAGCCCTCCCTGGTGGTTGCACCCAACCTGGCTCCCGAGCTCACGGCGACCTGCCTGGC
CCGCTGCCAGGGCACTGGCTTCAAGGAGGAGATGGCTGCTAACGTGCTGTGCGGTGGCTGCACCATG
CTGGATGGTTTCCCGAGCGTTTCCAGAGGGAGTTGAGTCTCCTCTGCCAGGAGACAGCCCCACGGTGG
CCGCTGCTCCCGAGAGGAAGACATCAGTGTGGACCGGGCTCCATCCTGGCCTCCTTGAAGCCTTCCA
GCAGCTTTGGTTCAGCAAAGAAGAGTTTGAGGAGCGGGGCTGTGCAGCCATCTACAGCAAGTGC

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218692 protein sequence
Red=Cloning site Green=Tags(s)

MATKNSPSPKPMGTAQGDPEAGTLPAPEAAGIRDGTSTQLKTKPKKIRKIKALVIDLGSQYCKCGYAGE
 PRPTYFISSTVGKRSAEMAADAGDNFKETYVGHLLNMEASLKLVNPLKHGVVVDWDCIQNIWEYIFHTA
 MKIMPEEHAVLVSDPPLSPTSNREKYAELLFETFGIPAMHVTSQALLSIYSYKTSGLVVESGHGVSHVV
 PISEGDLPLGPPSRVDYAGCDLTNYLMQLLNEAGHKFSDDHLHIIIEHIKKKCCYAALLPEEEMSLGLDEL
 HVDYELPDGKIITIGQERFRCSEMLFKPSLVGCTQPGLPELTATCLARCQGTGFKEEMAANVLLCGGCTM
 LDGFPERFQRELSLLCPGDSPTVAAAPERKTSVWTGGISLASLQAFQQLWYSKEEFEERGCAAIYSKC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_025271

ORF Size: 1257 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_025271.2](#), [NP_079547.2](#)

RefSeq Size: 1424 bp

RefSeq ORF: 1257 bp

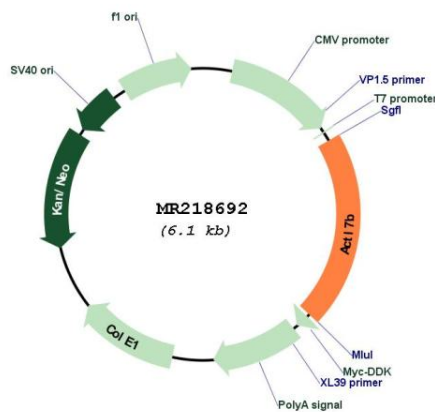
Locus ID: 11471

UniProt ID: [Q9QY83](#)

Cytogenetics: 4 31.66 cM

MW: 45.6 kDa

Product images:



Circular map for MR218692