

Product datasheet for **RR214620**

Actl7b (NM_001025417) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Actl7b (NM_001025417) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Actl7b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214620 representing NM_001025417 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACAAGAACAACCCTAGCCCTAAGCCCATGGGCACAGCTCAGGGAGATCCTGGAGAGGCAGGAA
CACTGCCAGCCCCGAGGCTGGCATTTCGGGACACAGGTTCCACTCAACTGAAGGCAAAACCAAGAAAA
ACGGAAGATCAAGGCGCTGGTCATTGACCTGGGCTCCAGTACTGTAAGTGCGGCTACGCGGGAGAGCCG
AGGCCACCTATTTTCATCTCCTCTACTGTGGGCAAGCGCAGTGCCGAGATGGCTGCAGATGCTGGAGACA
CCTTCAAGGAGACGTATGTCGGCCATGAGCTGCTCAACATGGAGGCATCTCTGAAGCTGGTTAACCCACT
GAAGCACGGAGTTGTGGTGGACTGGGATTGTATCCAGAACATCTGGGAGTACATCTCCACACCGCCATG
AAGATCTCCCCGAAGAGCATGCTGTGCTGGTATCAGACCCTCCGCTCAGCCCCACCAGCAACCGGGAGA
AGTACGCTGAGCTCATGTTGAGACCTTTGGCATTCTGCCATGCATGTGACCTCCAGGCGCTACTGTC
CATCTACTCATATGGCAAGACCTCCGGTTGGTGGTGGAGAGCGGACATGGCGTGTGCGATGTGGTGCC
ATCTCTGAAGGGACCTGCTGCCGGCCTGCCAGCCGCTAGACTATGCGGGCTGCGACCTCACCAACT
ACCTCATGCAGCTACTCAACGAGGCAGGGCACAAGTTTTTCAGACGACCACCTGCACATTATAGAACACAT
CAAGAAGAAGTGCTGCTATGCCGCGCTGCTGCCAGAGGAAGAGATGAGCCTGGGCCTGGATGAGCTGCAC
GTCGACTACGAGCTCCCGGATGGGAAAGTCATCACCATTGGCCAGGAGCGCTTCCGCTGCTCCGAGATGC
TCTTCAAGCCCTCTTTGGTGGGAGCAGCCAGCCTGGCCTCCCTGAGCTCACCAGCAGCTGCCTCGACCG
CTGCCAGGGCACTGGCTTCAAGGAGGAGATGGCTGCTAACGTGCTGCTGTGTTGGTGGCTGCACCATGCTG
GATGGCTTCCCCGAGCGTTTCCAGAGGGAGCTGAGTCTCCTGTGCCAGGGGACAGCCCTACAGTGGCAG
CTGCTCCGGAGAGGAAGACGTAGTGTGGACCGGGCTCCATCCTGGCCTCGTTGCAGGCCCTCCAGCA
GCTTTGGTTCAGCAAAGAAGAGTTTGGAGAGCGGGCTGTGCAGCCATCTACAGCAAGTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214620 representing NM_001025417
 Red=Cloning site Green=Tags(s)

MATKNNPSPKPMGTAQGDPEAGTLPAPEAGIRD TGSTQLKAKPKKIRKIKALVIDLGSQYCKGAYAGEP
 RPTYFISSTVGRSAEMAADAGDTFKETYVGHHELLNMEASLKLVNPLKHGVVVDWDCIQNIWEYIFHTAM
 KILPEEHAVLVSDPPLSPTS NREKYAELMFETFGIPAMHVTSQALLSIYSYGKTSGLVVESGHGVSHVVP
 ISEGDLLPGLPSRVYDAGCDLTNYLMQLLNEAGHKFSDDHLHIEHIIKKKCCYAALLPEEEMSLGLDELH
 VDYELPDGKVITIGQERFRCSEMLFKPSLVGSTQPLPELTATCLDRCQGTGFKEEMAANVLLCGGCTML
 DGFPERFQRELSLLCPGDSPTVAAAPERKTSVWTGG SILASLQAFQQLWWSKEEFEERGCAAIYSKC

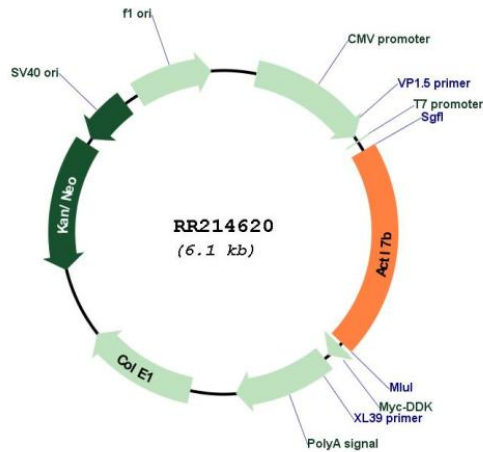
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025417

ORF Size:	1251 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:	<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_001025417.1 , NP_001020588.1
RefSeq Size:	1416 bp
RefSeq ORF:	1254 bp
Locus ID:	313183
UniProt ID:	Q4QR76
Cytogenetics:	5q24
MW:	45.5 kDa