

Product datasheet for MR224733

Acd (NM_001012638) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acd (NM_001012638) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acd
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR224733 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGATT**CAGGGTTGCTGGCCCTACAGCCCTGGATT**CGAGAGCTGATCCTAGGTT**CAGAAACACTGT**
CAAGTCCACGAACCGGGCAGCTGCTCAAGTACTCCAGGACTCGGAGACTCCCGGCCCTTCTCCGCCCC
TGACACACTGACACCGGGGCCGTGTTACTTGTGTCAGACGGAACCCACAGTGTCCGATGGTGTTGACG
CGCAACGCCATCGACACCTCCGACTGGGAGGAGAAGGAGCTCGGATTCGCGGGACCGAGGGCCGGCTCC
TGCTACTGCAGGCCTGCGGGCTCCGCGTTCAGGTGGCTCAGGACCATGCGCCTGCGGAGTTCTACCTCCA
GGTGGATCGCTTTAACCTGCTGCCACGGAGCAGCCCCGGATACAGGTGACTGGTTGCAATCAGGATTCA
GATGTGCAGAGAAAACCAATGAGTGTCTTGAGGACCACCTCTCAGAGTCTGCTTCTCCAGTGCAGGCC
TAACCTGTCCCAGCTTCTGGATGAGGTGAGGGAGGACCAGGATCATCGGGGAGCCCTAGTGTGTCTAGC
TAAGAGCTGCCTGGTGTGAAAGGTCCTGTACAACACCCCCCTCACCGACTGGATCACCTCTGGCTCC
CAGGCCTTGGGAAAAGCTGTGTTCACTGTGTCTGGCTCATTGCTGCACATCCCTGAGGGTGAGGAGCAGA
TTTTGAGTTCTACAGGCTCCAGTCAGAAGGCTCGGGAACTCCGCTTCAACCAGCCACATGCCCTGGA
GGAAAGTGGTGCCAGCGTTAGCCTTCTGTGAGCCTTGGCTACATCGGACCCTGGGAGATGGACAGTTCC
CAGTCTCCACCAGCTGTTGGCTCAACCTCCCCAAGAGCTCAGGCCCCACTTCTCCACCCTGCAATTCTA
CACCCAGCTCCCTACTCTTGAAGTGCAGCCCCAGTCTTTCACCCCTTACCCTGCCCTAGATCACACCA
GTCCTGTGAGACCAGAGCTCAGGCTCCTAAGCTGGAGTCCAGTGTCTCTCAAGAAACGGCAGCTTCTC
CCAAGAACCAGCGCCAGGAGCTCTGCTGTGTGGGAACCCCCAGAGAGGCATCGTGATACTTCTGCAT
TCCAGTATAAATACGAGACACCTCTGCCTCCACACCCAGGTCCAAACTGCCAGGCTCTCTCTCA
GCTTGTAGCTTGGGCCTTGAATATAGTGATGGAGTCAGAGTCTGAGTTAACCAGGTA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR224733 protein sequence
 Red=Cloning site Green=Tags(s)

MSDSGLLALQPWIRELILGSETLSSPRTGQLLKVLDQSETPGPSSAPDTPDTGAVLLVSDGTHSVRCVVT
 RNAIDTSDWEEKELGFRGTEGRLLLLQACGLRVQVAQDHAPAEFYLVQDRFNLLPTEQPRIQVTCGNQDS
 DVQRKLNCELEDHLSSESASSAGLTLSQLLDEVREDQDHRGALVCLAKSCLVLKGPCTTTPLTDWITSGS
 QALGKAVFTVSGSLLHIPEGEEQILSSTGSSQKARGTSASP SHMPLEESGASVSLLSALATSDPGQMDSS
 QSPPAVGSTSPRAQAPTSPPCNSTPSSLLLNCSPLSPLHPAPRSHQSCETRAQAPKLEFQCSFKKRQLL
 PRTSAQELCSVWEPPERHRDTSAFQYKYETPSASLHTQVQ TARLSPQLVAWALNIVMESESEL TQV

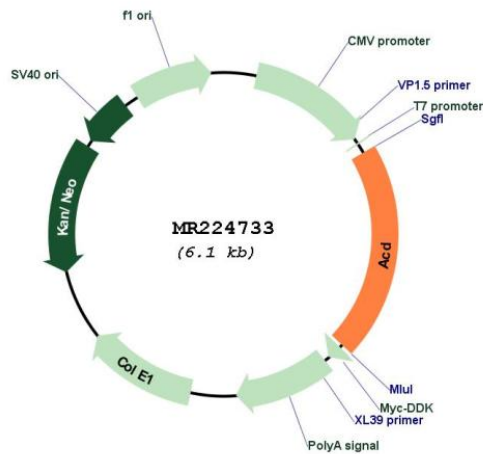
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001012638

ORF Size:	1251 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_001012638.2
RefSeq Size:	1425 bp
RefSeq ORF:	1251 bp
Locus ID:	497652
UniProt ID:	Q5EE38
Cytogenetics:	8 53.04 cM
MW:	44.7 kDa

Gene Summary:

Component of the shelterin complex (telosome) that is involved in the regulation of telomere length and protection. Shelterin associates with arrays of double-stranded TTAGGG repeats added by telomerase and protects chromosome ends. Without its protective activity, telomeres are no longer hidden from the DNA damage surveillance and chromosome ends are inappropriately processed by DNA repair pathways. Promotes binding of POT1 to single-stranded telomeric DNA. Modulates the inhibitory effects of POT1 on telomere elongation. The ACD-POT1 heterodimer enhances telomere elongation by recruiting telomerase to telomeres and increasing its processivity (By similarity). May play a role in organogenesis (PubMed:15537664).[UniProtKB/Swiss-Prot Function]