

Product datasheet for **RR215414**

Acd (NM_001037193) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Acd (NM_001037193) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Acd
 Synonyms: MGC116400
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR215414 representing NM_001037193
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGC**C

ATGTGCAATTCAGGGAGGCTGGTCTCGTCCCTGGATTCGAGAGCTGATCCTGGGCTCAGAAACACTGT
 CAAGTCCACAAGCCGGTCATCTGCTCAAGTACTCCAGGACTCGGAGACTCCGGGCCATCTCCGCCCC
 TGACACACCTGACACCGGGCCGTGTTACTTGTGTGATGGAATCATAGTGTCCGATCGGTGGTGACG
 CGTAATGCCATCGACACCTCTGACTGGGAGGAGAAGGAGTTCGGATTCGGTGGGACCGAGGGCCGGCTCC
 TGCTGTGTCAGGCGTGC GGCTCCGCATTCAAGTGGCTCAGGACTATGCGCCTGCGGAGTCTACCTCCA
 GGTGGATCGCTTTAACCTGCTGCCACGGAGCAGCCCCGGGTACAGGTGACTGGTTGCAATCAGGATTC
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 TAACCTGTCTCAGTCTTGATGAGGTGAAGGAAGACGGGGATCATCGGGGAGCACTAGTGCCTAGC
 TGAGAGCTGCCTAGTGTACAAGTCCCTTACAGCAAGACCCCTCACGCACTGGGCTACCTCTTGCTCC
 CAGGCCACGGAAGAAGCTGTGTTACCCGTGCCTAGTTTCTACTGCACATCTCTGAGAATGAGGAACAAA
 TTCTGAGTTCTATAGACTCAAGTCAGAAGGCACAGAAAACCTGCTTCTCCAGCCTCATGCCACAGGA
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 CAGCCTCCGCCAACTGTTTGCTCAACCTCCCCAAGAGCTCAGGCCCCAGTCTACACCTGCACTTCTA
 CACCCAGCTCCCACTCTTGACCTGCAGCCCCAGTCTCTACCCCTTCGACATGCCCTACTTCATACCA
 GGCCTGTGAGACCAGAACCAGTTTCATAAGCTAGAGTTCAGGGAGCTCCAGTGGCCCATCAAAGACGG
 CAGCTTCTCCCAAGAACCGAGCCAGGAGCCCCACTCTGTCTGGGAACCCAGAGAGGCATCGTGATA
 CTTCTGCATTCCAGTATAAATATGGACACCCTCTGCCTCCCTCCATACCCAGGTCCAACTGCCAGGCT
 CTCTCCTCAGCTTGTAGCTTGGCCCTTGAACATAGTGATGGAGTCTGAGTTACCACAGGTA

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA



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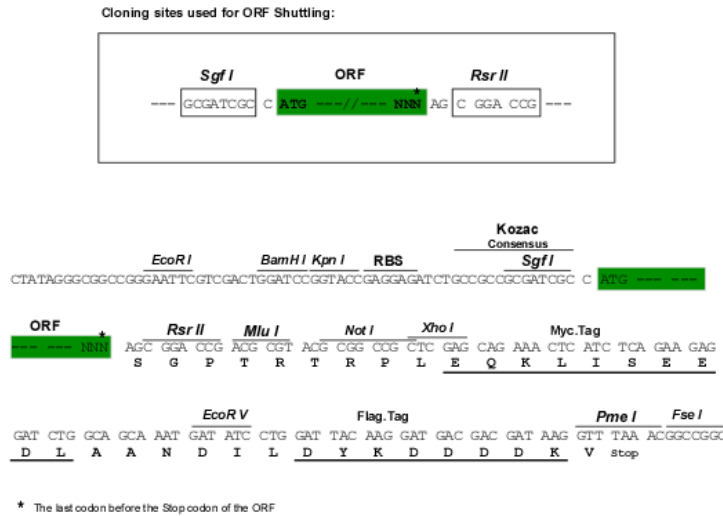
Protein Sequence: >RR215414 representing NM_001037193
Red=Cloning site Green=Tags(s)

MSNSGRLVLRPWIRELILGSETLSSPQAGHLLKVLQDSETPGPSSAPDTPDTGAVLLVSDGTHSVRCVVT
 RNAIDTSDWEEKFEGFRGTEGRLLLLQACGLRIQVAQDYAPAEFYLVQVDRFNLLPTEQPRVQVTGCNQDS
 DVQKLNKCLEHDHLSASASSAGLTLSQLLDEVKEDGDHRGALVRLAESCLVLQGFPTARPLTHWATSCS
 QATEEAVFTVPSFLLHISENEEQILSSIDSSQKAQENPASPMPQEESGASVLLSALPTSDPGQKDNS
 QPPPTVCSTSPRAQAPSSTPCSSTPSSPLLTCSPSLSPLRHAPTSYQACETRTQFHKLEFRELQWPVKRR
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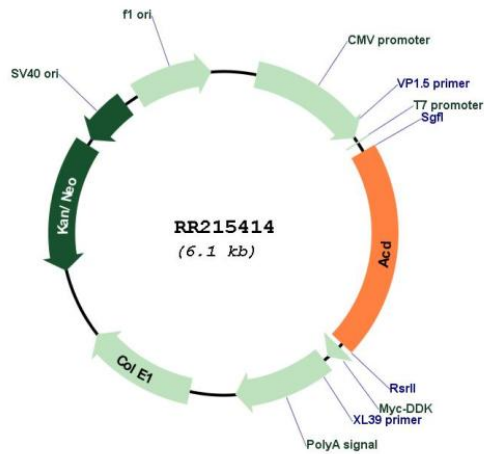
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001037193

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_001037193.1 , NP_001032270.1
RefSeq Size:	1401 bp
RefSeq ORF:	1254 bp
Locus ID:	307798
UniProt ID:	Q4FZR5
Cytogenetics:	19q12
MW:	45.6 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. May play a role in organogenesis.[UniProtKB/Swiss-Prot Function]