

## Product datasheet for MC215064

### Acd (NM\_001012638) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Acd (NM\_001012638) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: Acd  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Fully Sequenced ORF: >MC215064 representing NM\_001012638  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCCGATTCAGGGTTGCTGGCCCTACAGCCCTGGATTCGAGAGCTGATCCTAGGTTGAGAAACACTGT  
 CAAGTCCACGAACCGGGCAGCTGCTCAAGTACTCCAGGACTCGGAGACTCCCGGCCCTTCTCCGCCCC  
 TGACACACCTGACACCGGGCCGTGTTACTTGTGTGACACGGAACCCACAGTGTCCGATGCGTGGTGACG  
 CGCAACGCCATCGACACCTCCGACTGGGAGGAGAAGGAGCTCGGATTCGCGGGACCGAGGGCCGGCTCC  
 TGCTACTGCAGGCTGCGGGCTCCGCTTCAGGTGGCTCAGGACCATGCGCTGCGGAGTTCTACCTCCA  
 GGTGGATCGCTTTAACCTGCTGCCACGGAGCAGCCCGGATACAGGTGACTGGTTGCAATCAGGATTCA  
 GATGTGCAGAGAAAACCAATGAGTGTCTTGAGGACCACCTCTCAGAGTCTGCTTCTCCAGTGCAGGCC  
 TAACCCTGTCCCAGCTTCTGGATGAGGTGAGGGAGGACCAGGATCATCGGGGAGCCCTAGTGTGTCTAGC  
 TAAGAGCTGCCTGGTGTGAAAGGTCTTGTACAACCCCCCTCACCGACTGGATCACCTCTGGCTCC  
 CAGGCCTTGGGAAAAGCTGTGTTCACTGTGTCTGGCTCATTGCTGCACATCCCTGAGGGTGGAGGAGAGA  
 TTTTGAGTTCTACAGGCTCCAGTCAGAAGGCTCGGGAACTCCGCTTACCCAGCCACATGCCCTGGA  
 GAAAAGTGGTCCAGCGTTAGCCTTCTGTACGCTTGGCTACATCGGACCCTGGGAGATGGACAGTTCC  
 CAGTCTCCACCAGCTGTTGGCTCAACCTCCCAAGAGCTCAGGCCCCACTTCTCCACCCTGCAATTCTA  
 CCCCAGCTCCCTACTCTTGAAGTGCAGCCCCAGTCTTTCACCCCTTACCCTGCCCTAGATCACACCA  
 GTCCTGTGAGACCAGAGCTCAGGCTCCTAAGCTGGAGTTCAGTGTCTTCAAGAAACGGCAGCTTCTC  
 CCAAGAACCAGCGCCAGGAGCTCTGCTGTGTGGGAACCCCAAGAGGCATCGTGATACTTCTGCAT  
 TCCAGTATAAATACGAGACACCTCTGCCTCCCTCCACACCCAGGTCCAAACTGCCAGGCTCTCTCTCA  
 GCTGTAGCTTGGGCTTGAATATAGTGATGGAGTCAGAGTCTGAGTTAACCCAGGT**TGA**

**ACGGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja2070\\_e04.zip](https://cdn.origene.com/chromatograms/ja2070_e04.zip)



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001012638
<b>Insert Size:</b>	1251 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">BC138694</a> , <a href="#">AAI38695</a>
<b>RefSeq Size:</b>	1425 bp
<b>RefSeq ORF:</b>	1251 bp
<b>Locus ID:</b>	497652
<b>UniProt ID:</b>	<a href="#">Q5EE38</a>
<b>Cytogenetics:</b>	8 53.04 cM

**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]

Transcript Variant: This variant (1) encodes the longer isoform (1).