

## Product datasheet for **MR213896**

### Chadl (NM\_001164320) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chadl (NM_001164320) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chadl
Synonyms:	AY100452; D930017K21Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR213896 representing NM\_001164320  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGAGGCCCCAGAGCTCCATCTGGGTCTTTATGCTGTGCTGTTTCATGGTGTGCTCCAGAGCCCAG  
 CCTGGCACGTAGCTGCCAGCGATGCCACAGACCTGTGTCTGCGACAACCAAGACGGCATGTTACCTG  
 CCGGCACCCAGAACCTCACCGAGGTGCCAAACACCATCCCTGAGCTGACCCAGAGGCTGGACCTCCAGGGC  
 AATATACTGAAGGTCCTCCCTGCAGCGGCTTCCAGGACCTGCCCCACCTCACGCATCTGGACCTGCGGA  
 ACTGTCAGGTGGAGATGGTGGCCGAGGGTGCCTCCGTTGGCTGGGTGCGCTGCTCCTCAACCTGGC  
 TTCCAACCGCTGAGCACCTGCCCCAGGAGGCGCTGGACGGGCTGGGCTCGCTGAGGCGCTGGAGCTG  
 GAGGGGAACATGTTGGAGGAGCTGCGCCCGGGGACCTTCGGCGCCCTGGGCTCGCTGACCACTCTCACT  
 TGGCCACAACGCCCTGGTCTACCTGCCCGCCATGGCCTTCCAGGGGCTGCTGCGCACCCGCTGGCTGCA  
 GCTGTCTACAATGCGCTCAGCGTCTGGCCCCGAGGCTCTGGCCGGCTGCCGGCGCTGCGCCGCTCTC  
 AGCCTGCACCACAACGAGCTGCAGGCCCTGCCCGGGGCCCTGTCCCAGGCCCGCAGCCTGGCGCGGC  
 TGGAGCTGGGTACAACCCGCTCACCTACACGGGAGAGGAGGACGGCCTGGCGCTGCCCGCCCTGCGGGA  
 GCTCGCACTGGACCACGGGTCCCTGCAGGCCCTGGGGCCCCGGGCTTCGCCCACTGCCCGCGCTGCAC  
 ACCCTCGACCTCCGCGGGAACGAGCTCACACCCTGCCCCGCTACAGGTCCCAGGCCAGCTGCGCCGCGC  
 TGCGGCTGCAGGGCAACCCGCTGTGGTGCCTGCCACGACGGCCCTGCTCGAGTGGCTGGTGCAGCGC  
 TCGGGTGCCTCGGATGGCGCTGCCGGGGCCCGCGGCTGCGAGGCGAGGCCCTGGATACGCTGCGG  
 CCCTCTGACCTGCGCTGCCCGGGGACGCGGGCGGGGACGGGATGGGACGAGGACGAGGACCGCGC  
 CGGCGGTCCCCGCTCCTCCTTTCGCTCCCCGACGGAGAGGCCGCTGGGCCAGCCCTGCCCTCC  
 AGCCTGCGCGTGGTTCGCGAGACCCGGCACAGCACTTGCAGCGCCGCGCCTGCAGGCCGTGCCCGC  
 GGCTTCCCAACGACACCCAGCTCCTGGACCTGAGGCGCAACCACTTCCCTCGGTGCCCGCGCGGCT  
 TCCCGGGCTTGCGCCACTTGGTGTGCTGCACCTGCAGCACTGCGGCGTGCAGGAGCTGGAGCCCGCGC  
 CTTGGCCGGCTGGACCGCTGCTATCTCTACCTCTCCACAACAGCTCTCGGGCTGAGCGCCGCGC  
 GCCCTCGAAGGGGCCCCAACCTGGGCTACCTGTACCTGGAGCACAACCGCTTCTGAGGATCCCGGGGA  
 CCGCTCTGCGGGCCCTACCCACCCTGTCTGCTACACCTCCAGGACAACGCGGTGGACCGCTGGCGCC  
 CGGGATCTGGCAGGAGCGGGCTTTGCGCTGCCTTTACCTGAGTGGCAATCACATCACCCAGGTTTCA  
 CCCGGGGCGCTCGGTCCAGCGCGGAGCTGGAGAAGCTGCACCTCGACAGAAACCGCTGCGAGAGGTGC  
 CGACTGGAGCCTTGGAGGGGCTGCCGGGCTCAAGGAGCTGCAGCTCTCGGGGAACCCGCTCCGGGCTCT  
 TCAGACGGCGCCTTTCAGCCCGTGGGGCGGCTCGCTGCAGCAGCTCTTCTGAATAGCAGTGACCTGGAG  
 CAGATTTCTCCAGGGCTTCTCAGGCCTGGGAAAAGGGCTGCGGAGCTTGTACCTGCACAAGAATCAAC  
 TTCAGTCCCTGCCTGCCCGCTGGGGCTCAGCGGGCTGGAGCTGGTTCGACCTCAGCGGTAATCCTTTCCA  
 CTGTGACTGCCAGCTGCTCCCGTGCACAGGTGGCTCACTGGGCTGAACCTGCGGGTGGGTGCCACCTGT  
 GCCACCCTCCCAGTGTCCGTGGCCAGAAGGTGAAGGTTGCAGCTCCTGTCTTTGAAGCTGCCAGGCT  
 GGACTGCCAGGAAGGCCAAGAGGACCAACCTCCAGAGGCAAGTCCAGGAGAACTCCAGCCTCAGCCG  
 ACAT

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:** >MR213896 representing NM\_001164320  
 Red=Cloning site Green=Tags(s)

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MERPQSSIIWVFMLLL FVLLQSPAWHVAAQRCPQTCVCDNSRRHVTCRHQNLTEVPNTIPELTQRLDLQG
NILKVLPAAAFQDLPHLTHL DL RNCQVEMVAE GAFRGLGRLLLLNLASNRLSTLPQEALDGLGSLRRELE
EGNMLEELRPGTFGALGSLTTLNLAHNALVYLPAMAFQGLLRTRWLQLSHNALSVLAPEALAGLPALRRL
SLHHNELQALPGAALSQARSLARLELGHNPLTYTGEEDGLALPGLRELALDHGSLQALGPRAFAHCPRHL
TLDLRGNQLTTL PPLQVPGQLRRLRLQGNPLWCACHARPLLEWLVRARVSDGACRGPRLRGEALDTLR
PSDLRCPGDAAGDGDGDEDED RPAGPRAPPLRSPHGEAAWATPCPPACACVAETRHSTCDGRGLQAVPR
GFPNDTQLLDLRRNHFPVPRAAFPGLRHLVSLHLQHCGVAELEPGALAGLDRLLYL YLSHNQLSGLSAA
ALEGAPNLGYLYLEHNRFLRIPGTALRALPTLVSLHLQDNAVDR LAPGDLAGARALRCLYLSGNHITQVS
PGALGPARELEKHLDRNRLREVPTGALEGLPALKELQLSGNPLRALPDGAFQPVGRSLQQLFLNSSDLE
QISPRAFSGLGKGLRSLYLHKNQLQSLPAPLGLSGLLEVDLSGNPFHCDCQLLPLHRWLTGLNLRVGATC
ATPPSVRGQKVKVAAPVFEACPGWTARKAKRTPTSRGSARRTPSLSRH
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9103\\_e07.zip](https://cdn.origene.com/chromatograms/mm9103_e07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

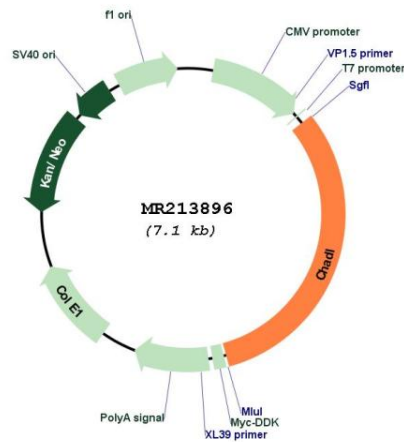
**ACCN:** NM\_001164320

**ORF Size:** 2244 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.

<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>	<u>NM_001164320.1, NP_001157792.1</u>
<b>RefSeq Size:</b>	2547 bp
<b>RefSeq ORF:</b>	2247 bp
<b>Locus ID:</b>	214685
<b>UniProt ID:</b>	<u>E9Q7T7</u>
<b>Cytogenetics:</b>	15 E1
<b>MW:</b>	81.4 kDa
<b>Gene Summary:</b>	Potential negative modulator of chondrocyte differentiation. Inhibits collagen fibrillogenesis in vitro. May influence chondrocyte's differentiation by acting on its cellular collagenous microenvironment.[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for MR213896