

## Product datasheet for **MG215336**

### Chd2 (NM\_001081345) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Chd2 (NM\_001081345) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Chd2  
**Synonyms:** 2810013C04Rik; 2810040A01Rik; 5630401D06Rik; AI851092; BC029703; CHD-2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG215336 representing NM\_001081345  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGATGAGAAATAAGGACAAAAGCCAAGAGGAGGACAGTTCGCTACACAGCAATGCATCGAGTCGTTTCTCAG  
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 TGGACATGGCAGCGAGTCCAATAGCAGTTCGGAGTCTTCTGAGAGCCAATCAGAGTCTGAGAGTGAATCG  
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GGCCCAACTGGCTGGCTCACTCCTGGTGCAAAAGTAACAGTGTAACTCCTTGCTGATGAAATGGGCCTAG  
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 TTCAAATCACCTTGGATCATAGGTCTCCTTTGGAGAGATCACTAGAACAGAAAAACAACCCAGATTAT  
 AACTGGAATGTTCGGAAAAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG215336 representing NM\_001081345  
 Red=Cloning site Green=Tags(s)

MMRNKDKSQEEDSSLHSNASSRSASEEVSGSDSGSQSESEQSEPGSGHGSESNSSSESSESQSESESES  
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 GQRQLKKQEKWKQDPSEDEQEQTSAESEAEQKKGKARRPVPRRTVPKPQVKKQPKIQRGKRKKQESSDD  
 DDDDDDEAPKRQTRRRAAKNVSYKEDDDFETSDDLIEMTGGGDEQQDNSETIEKVLDSRLGKKGATGAS  
 TTYVAVEANGDPSDDFDTEREEGEVQYLKWKWGSYIHSTWESEDSLQQQKVKGLKLENFKKKEDEVKQ  
 WLGKVPEDVEYFSCQQELASELNKQYQIVERVIAVKTSKSTLGGQTFPAHSRKPAPSNEPEYLCKWMGL  
 PYSECSWEDEALIGKKFQNCIDSFHSRNNKTIPTRECKALKQRPRFVALKKQPAYLGGESLELRDYQLE  
 GLNWLHAHSWCKSNSVILADEMGLKTIQTIISFLSYLFHQHQLYGPFLIVVPLSTLTSWQREFEIWAPEIN  
 VVVYIGDLSMRNTIREYEWIHSQTKRLKFNALITTYEILLKDKTVLGSINWAF LGVDEAHLKNDSDLLY  
 KTLIDFSNHRLLITGTPLQNSLKEWLLHFIMPEKFEFWEDEEDHGKGRENGYQSLHKVLEPFLRR  
 VKKDVEKSLPAKVEQILRVEMSLQKQYKWLTRNYKALAKGTRGSGFLNIVMELKKCCNHCYLIIKA  
 PEDSERESGQEVQLSIRSSGKILLDKLLTRLRERGNRVLIFSQVMRMLDILAEYLTIKHYPFQRLDGS  
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 WGVEDDSRLLLLGIYEHGYGNWELIKTDPELKLTDKILPVETDKKPOGKQLQTRVDYLLKLLRKGLEKKG  
 VASGEEAKLKKRKPRVKKENKAPRLKDEHGLEPASPRHSDNPSEEGEVKDDGLEKSPTKKKQKKKENKEN  
 KEKPVSSRKDREGDKERKKSKDKKEVKGGDGKSSSKRSQGPVHITAGSEPVPIGEDEDLDDQETFS  
 ICKMRPVKALKQLDKPDKGLSVQEQLHTRNCLLIGDRIAECLKAYSQDEHIKLRWRNLWIFVSKF  
 TEFDARKLHKLKMAHKKRSQEEEEQKKDDSLGGKPFPRPEASGSSRDSLISQSHTSHNLHPQKPHLPA  
 SHGPQMHGHPRDNYSHPNKRHF SNADRGDWQRERKFNYGGGNSAPWGGDRHHQYEQHWYKDHHDGRRHM  
 DAHRSGSYRPNNSRKRPEYQYNSDRDRHGRDYDRHHHDSKRRRSDDFRPQNYHQDFRRMSDHRPTM  
 GYHGQGPSDHYRSFHTDKLGEYKQPMPSLHTALSDPRSPPSQKSPHDSKSPLDHRSPLERSLEQKNNPDY  
 NWNVRKT

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001081345

ORF Size: 5481 bp

OTI Disclaimer: 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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:**

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\\_001081345.2](#), [NP\\_001074814.2](#)

**RefSeq Size:** 9071 bp

**RefSeq ORF:** 5484 bp

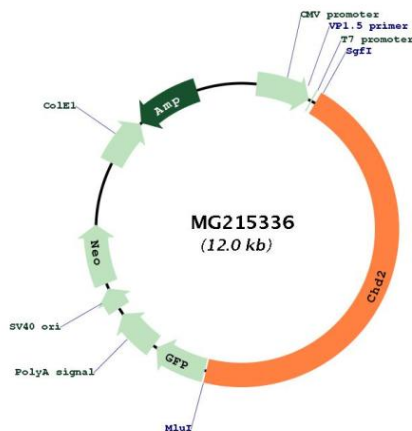
**Locus ID:** 244059

**UniProt ID:** [E9PZM4](#)

**Cytogenetics:** 7 D1

**Gene Summary:** DNA-binding helicase that specifically binds to the promoter of target genes, leading to chromatin remodeling, possibly by promoting deposition of histone H3.3. Involved in myogenesis via interaction with MYOD1: binds to myogenic gene regulatory sequences and mediates incorporation of histone H3.3 prior to the onset of myogenic gene expression, promoting their expression.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG215336