

## Product datasheet for MR226492

### Chd1 (NM\_007690) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Chd1 (NM\_007690) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Chd1  
**Synonyms:** 4930525N21Rik; AI851787; AW555109  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR226492 representing NM\_007690  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGAATGGACACAGTGATGAAGAAAGTGTAGAAATGGCAGCGGAGAATCAAGTCAGTCAGGTGATGATT  
 GTGGGTCAGCATCAGGCTCTGGATCTGGCTCGAGTTCTGGCAGCAGCAGTGACGGAAGCAGCAGCCAATC  
 CGGGAGCAGCGACTCTGATTCTGGCTCTGACTCAGGAAGTCAATCAGAGTCTGAATCAGACACATCCCGA  
 GAGAACAAGTTCAAGCAAAACCACAAAAGTCGACGGAGCCGAGTTTTGGAAATCTAGCCCCAGTATTC  
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 GATTTGAAAGAAACAAAGAGCCAGGAGACATACAGTATTTAATTAAGTGGAAAGGATGGTCTCACATCCA  
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GCTCACTCTTGGTGCAAAGGAAATAGTTGCATACTTGCTGATGAAATGGGCCCTGGGAAAACAATACAGA  
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ACACCTGGAGTAGTCGGAAGACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226492 representing NM\_007690  
Red=Cloning site Green=Tags(s)

MNGHSDEESVRNGSGESSQSGDDCGSASGSGSGSSSSGSSSDGSSSSQSGSSSDSGSDSGSQSESESDTSR  
ENKVQAKPPKVDGAEFWKSSPSILAVQRSAMLRKQPQQAQQRPASSNSGSEEDSSSESDSSSSGAKR  
KKHNDEDWQMSGSGSPSQSGDSESEEEERDKSSCDGTESDYEPKNKVRSRKPQNRSKSKNGKILGQKKR  
QIDSSDEDEDYDNDKRSSRRQATVNVSYKEDEEMKTDSDLLLEVCGEDVPQPEDEEFETIERVMDCRV  
GRKGATGATTTIYAVEADGDPNAGFERNKEPGDIQYLKWKGWSHIHNTWETEETLKQNVVRGMKLDNY  
KKKDQETKRWLKNASPEDVEYINCQQLTDDLHKQYQIVERIIAHSNQKSAAGLPDYCKWQGLPYSECS  
WEDGALISKKFQTCIDEYFSRNQSKTTPFKDCKVLKQRPRFVALKKQPSYIGGHEGLELRDYQLNGLNWL  
AHSWCKGNSCILADEMGLGKTIQTISFLNYLFHEHQLYGPFLLVVPLSTLTSWQREIQTWASQMNAVYYL  
GDINSRNMIRTHEWMHPQTKRLLFNILLTTEILLKDKAFLGGLNWFIVGDEAHLKNDSSLLYKTLID  
FKSNHRLITGTPLQNSLKEWLLHFIMPEKFSWEDFEEHKGREYGYASLHKELEPFLRRVKD  
EKSLPAKVEQILMEMSALQKQYKWLTRNYKALSKGSKGSTSGFLNIMMELKCCNHCYLKPPDNE  
FYKQALQHLIRSSGKLLLDKLLIRLRERGNRVLIFSQMVRMLDILAEYLKYRQFPFQRLDGSIKGEL  
RKQALDHFNAEGSEDFCLLSTRAGGLINLASADTVVIFDSDWNPQNDLQAQARAHRIGQKKQVNIYRL  
VTKGSVEEDILERAQQMVLVHLVIQRMDDTGKTVLHTGSAPSSSTPFNKEELSAILKFGAEELFKEPEG  
EEQEPQEMDIDEILKRAETHENEPGLSVGDELLSQFKVANFSNMEDEEIEPERNSKNWEEIIPEEQR  
RRLIEEEERQKELEEIYMLPRMRNCAKQISFNGSEGRRSRRYSGSDSDSI SERKRPKGRPRPTIPREN  
IKGFSDAEIRRFIKSYKFKGGPLERLDAIARDAELVDKSETDLRRLGELVHNGCVKALKDSSSGTERAGG  
RLGKVKGPTFRISGVQVNAKLVI AHEDEL IPLHKSIPSDPEERKQYTI PCHTKAAHFDIDWGKEDDNL  
IGIYEYGYGSWEMIKMPDLSLTHKILPDDPKKPAKQLQTRADYL IKLLSRDLAKREAQRLCGAGGSK  
RRKTRAKKSKAMKSIKVKEEIKSDSSPLPSEKSDDEDDKLNDSKPEKDRSKKSVVSDAPVHITASGEPV  
PIAEESEELDQKTF SICKERMPVKAALKQLDRPEKGLSEREQLEHTRQCLIKIGDHITACLKEYSNPEQ  
IKQWRKNLWIFVSKFTEFDARKLHKLKHAIKKRQESQONSQNSNVATTHVIRNPDMERLKENTNHDDS  
SRDSYSSDRHLSQYHDDHDKDRHQGDSYKKSRSRKPYSFSNGKDHREWDHYRQDSRYYSREKHKRLDD  
HRSREHRPSLEGGLKDRCHSDHRSRSHDRMHSRHSSEHHTHKSSRDYRYSWQQLDHRASSGPRSP  
DQRSPYGSRSRPFESAEHRSTPEHTWSSRKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

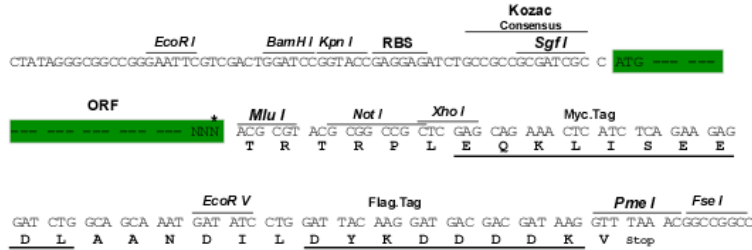
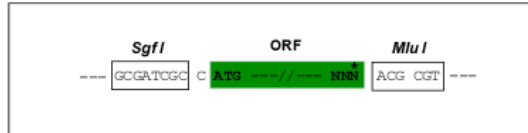
[https://cdn.origene.com/chromatograms/mm9049\\_e09.zip](https://cdn.origene.com/chromatograms/mm9049_e09.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:

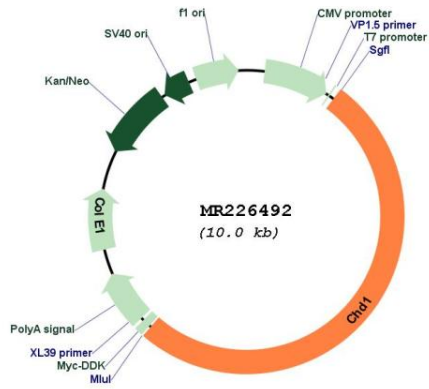


\* The last codon before the Stop codon of the ORF

- ACCN:** NM\_007690
- ORF Size:** 5133 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).

<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="#">NM_007690.3</a> , <a href="#">NP_031716.2</a>
<b>RefSeq Size:</b>	7918 bp
<b>RefSeq ORF:</b>	5136 bp
<b>Locus ID:</b>	12648
<b>UniProt ID:</b>	<a href="#">P40201</a>
<b>Cytogenetics:</b>	17 8.95 cM
<b>MW:</b>	196.8 kDa
<b>Gene Summary:</b>	ATP-dependent chromatin-remodeling factor which functions as substrate recognition component of the transcription regulatory histone acetylation (HAT) complex SAGA. Regulates polymerase II transcription. Also required for efficient transcription by RNA polymerase I, and more specifically the polymerase I transcription termination step. Regulates negatively DNA replication. Not only involved in transcription-related chromatin-remodeling, but also required to maintain a specific chromatin configuration across the genome. Required for the bridging of SNF2, the FACT complex, the PAF complex as well as the U2 snRNP complex to H3K4me3. Functions to modulate the efficiency of pre-mRNA splicing in part through physical bridging of spliceosomal components to H3K4me3 (By similarity). Required for maintaining open chromatin and pluripotency in embryonic stem cells (PubMed:19587682). Is also associated with histone deacetylase (HDAC) activity (PubMed:12890497).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226492