

Product datasheet for **RG224580**

CHD2 (NM_001271) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHD2 (NM_001271) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHD2
Synonyms:	DEE94; EEOC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224580 representing NM_001271 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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 AACAGCCTCTACCCCATTCGACCCTGCAGTCTCAGATCTCGCTCACCCCTTCTCAGAAATCTCTCA
 CGATTCGAAGTACCCCTGGATCATAGGTCTCCTTTGGAGAGATCACTAGAACAGAAAAACAACCCAGAT
 TATAACTGGAATGTTCCGAAAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224580 representing NM_001271
 Red=Cloning site Green=Tags(s)

MMRNKDKSQEEDSSLHSNASSHSASEEASGSDSGSQSESEQSDPGSGHGSESNSSSESSESQSESESES
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 TTYVAIEANGDPSGDFDTEKDEGEIQYLKWKWGSYIHSTWESESLQQQKVKGLKLENFKKKEDEIKQ
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 PYSECSWEDEALIGKKFQNCIDSFHSRNNKTIPTRECKALKQRPRFVALKKQPAYLGGENLELDRYQLE
 GLNWLHAWCKNNSVILADEMGLKTIQTI SFLSYLFHQHQLYGPFLIVVPLSTLTSWQREFEIIWAPEIN
 VVVYIGDLMSRNTIREYEWIHSQTKRLKFNALITTYEILLKDKTVLGSINWAF LGVDEAHLKNDSDLLY
 KTLIDFSNHRLLITGTPLQNSLKEWLLHFIMPEKFEFWEDEEDHGKGRENGYQSLHKVLEPFLRR
 VKKDVEKSLPAKVEQILRVEMSA LQKQYKWLTRNYKALAKGTRGSTSGFLNIVMELKKCCNHCYLIK
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 IKGEIRKQALDHFNADGSEDFCFLSTRAGGLGINLASADTVVIFDSDWNPQNDLQAQARAHRIGQKKQV
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 KELEGESEEPQEMDIDEILRLAETRENEVSTATDELLSQFKVANFATMEDEEELEERPHKDWEIIPPEE
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 WGVEDDSRLLLGIEHGYGNWELIKTDPELKLTDKILPVETDKKPOGKQLQTRADYLLKLLRKGLEKKGA
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 KEKQMSRRKDKGDKERKKSKDKKEPKSGDAKSSSKRSQGPVHITAGSEVPVIGEDDDLDQETFS
 ICKERM RPVKKALKQLDKPDKGLNVQEQL EHTRNCLLIGDRIAECLKAYSQDEHIKLRWRNLWIFVSKF
 TEFDARKLHKLKMAHKKRSQEEEEQKKDDVTGGKPFPRPEASGSSRSLISQSHTSHNLHPQKPHLPA
 SHGPQM HGHPRDYNHPNKRHF SNADRGDWQRERKFNYGGNNPPWGS DRHHQYEQHWYKDHHYGDRRH
 MDAHRSGSYRPNMSRKRYPYDQYSSDRDHRGRDYDRHHHDSKRRRSDFRPNQNYHQDFRMSDHRPA
 MGYHGQGPSDHYSFHTDKLGEYKQPLPPLHPAVSDPRSPPSQKSPHDSK SPLDHRSPLESLQKNNPD
 YNWNVRKT

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001271

ORF Size: 5484 bp

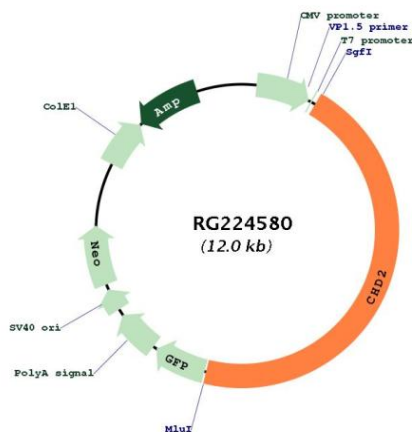
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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_001271.4](#)
- RefSeq Size:** 9374 bp
- RefSeq ORF:** 5487 bp
- Locus ID:** 1106
- UniProt ID:** [O14647](#)
- Cytogenetics:** 15q26.1
- Domains:** SNF2_N, CHROMO, DEAD, helicase_C
- Protein Families:** Transcription Factors
- Gene Summary:** The CHD family of proteins is characterized by the presence of chromo (chromatin organization modifier) domains and SNF2-related helicase/ATPase domains. CHD genes alter gene expression possibly by modification of chromatin structure thus altering access of the transcriptional apparatus to its chromosomal DNA template. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG224580