

Product datasheet for **RG224232**

CHD4 (NM_001273) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHD4 (NM_001273) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHD4
Synonyms:	CHD-4; Mi-2b; Mi2-BETA; SIHIWES
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224232 representing NM_001273 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCGGGCTGGGCTCCCCGTCCCCCTGCTCGGCGGGCAGTGAGGAGGAGGATATGGATGCACCTTT
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CCCCGTTGTACGTGTCCAGCTCTGAAGGGCAAAGTGCAGAAGATCCTAATCTGGAAGTGGGGTCAGCCAC
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224232 representing NM_001273
 Red=Cloning site Green=Tags(s)

MASGLSPSPCSAGSEEDMDALLNNSLPPHPENEEDEEDLSETETPKLKKKKKPKPRDPKIPKSKR
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 GADGAETFADGVPREGLSRQHVLTRIGVMSLIRKKVQFEHVNGRWSMPELAEVEENKMSQPGSPSPKT
 PTPSTPGDTQPNTAPVPPAEDGIKIEENSLKEEESIEGEKEVKSTAPETAIECTQAPAPASEDEKVVVE
 PPEGEEKVEKAEVKERTEEPMETEPKGAADVEKVEEKSAIDLTPIVVEDKEEKKEEEEKKEVMLQNGETP
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 DIQNDRPYAILNEPFKGMNRFLEIKNKFLARRFKLLEQALVIEEQLRRAAYLNMSDPSPHSMALNT
 RFAEVECLAESHQHL SKESMAGNKPANAVLHKVLKQLEELLSDMKADVTRLPATIARIPPVAVRLQMSER
 NILSRLANRAPEPTPQQVAQQQ

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001273

ORF Size: 5736 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).

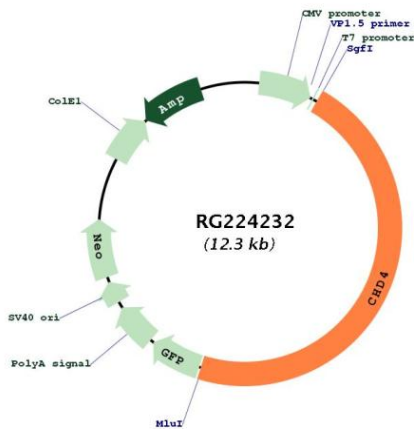
Reconstitution Method:

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_001273.5](#)

RefSeq Size: 6511 bp
RefSeq ORF: 5739 bp
Locus ID: 1108
UniProt ID: [Q14839](#)
Cytogenetics: 12p13.31
Domains: SNF2_N, CHROMO, DEAD, helicase_C, PHD
Protein Families: Druggable Genome, Transcription Factors
Gene Summary: The product of this gene belongs to the SNF2/RAD54 helicase family. It represents the main component of the nucleosome remodeling and deacetylase complex and plays an important role in epigenetic transcriptional repression. Patients with dermatomyositis develop antibodies against this protein. Somatic mutations in this gene are associated with serous endometrial tumors. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RG224232