

Product datasheet for **RG217475**

CHD3 (NM_005852) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHD3 (NM_005852) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHD3
Synonyms:	Mi-2a; Mi2-ALPHA; SNIBCPS; ZFH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217475 representing NM_005852 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**GGCGGCC**

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ACGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217475 representing NM_005852
 Red=Cloning site Green=Tags(s)

MKAADTVILWARSKNDQLRISFPPGLCWGDRMPDKDDIRLLPSALGVKKRKRGPKKQKENKPGKPRKRKK
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 VICIDD

TRPLE - GFP Tag - V

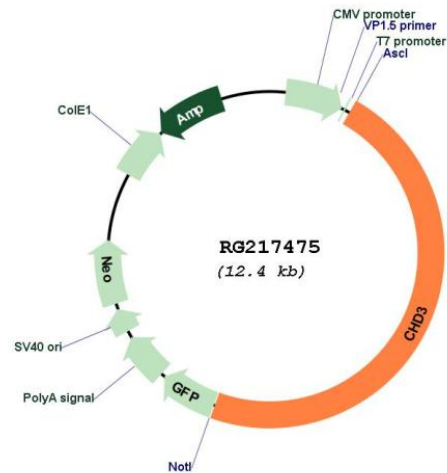
Restriction Sites:

Ascl-NotI

Cloning Scheme:

□

Plasmid Map:



ACCN: NM_005852

ORF Size: 5898 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_005852.4](#)

RefSeq Size: 7241 bp

RefSeq ORF: 5901 bp

Locus ID: 1107

UniProt ID: [Q12873](#)

Cytogenetics: 17p13.1

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the CHD family of proteins which are characterized by the presence of chromo (chromatin organization modifier) domains and SNF2-related helicase/ATPase domains. This protein is one of the components of a histone deacetylase complex referred to as the Mi-2/NuRD complex which participates in the remodeling of chromatin by deacetylating histones. Chromatin remodeling is essential for many processes including transcription. Autoantibodies against this protein are found in a subset of patients with dermatomyositis. Three alternatively spliced transcripts encoding different isoforms have been described. [provided by RefSeq, Jul 2008]