

## Product datasheet for RC240222

### CHD4 (NM\_001297553) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CHD4 (NM\_001297553) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** CHD4  
**Synonyms:** CHD-4; Mi-2b; Mi2-BETA; SIHIWES  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC240222 representing NM\_001297553  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC

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TGAACAACAGCCTGCCCCACCCACCCAGAAAATGAAGAGGACCCAGAAGAGGATTTGTCAGAAACAGA  
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GGCCTCCAGATGCTGATCCCAACACGCCCTCCCAAGCCCTTGAGGGGCGGCCAGAGCGGCAGTTCTT  
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**Protein Sequence:**

>RC240222 representing NM\_001297553  
Red=Cloning site Green=Tags(s)

MASGLGSPSPCSAGSEEDMDALLNNSLPPHPENEEDEEDLSETETPKLKKKKPKKPRDPKIPKSKR  
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TELQGMNEYLS SFKVAQYVVREEEMGEEEEVERE I IKQEE SVDPDYWEKLLRHHYEQQEDLARNLKGK  
RIRKQVNYNDGSQEDRDWQDDQSDNQSDYSVASEEGDEDFDERSEAPRRPSRKGLRNDKDKPLP LLARV  
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YAILNEPFGKEMNRGNFLEIKNKFLARRFKLLEQALVIEEQLRRAAYLNMSDP SHPSMALNTRFAEVEC  
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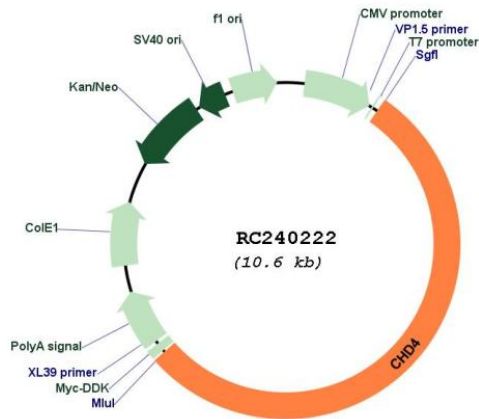
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001297553  
ORF Size: 5715 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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_001297553.2</a>
<b>RefSeq Size:</b>	6404 bp
<b>RefSeq ORF:</b>	5718 bp
<b>Locus ID:</b>	1108
<b>UniProt ID:</b>	<a href="#">Q14839</a>
<b>Cytogenetics:</b>	12p13.31
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>MW:</b>	217.6 kDa
<b>Gene Summary:</b>	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]