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Product datasheet for RC217757

Chromodomain helicase DNA binding protein 5 (CHD5) (NM_015557) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chromodomain helicase DNA binding protein 5 (CHD5) (NM_015557) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chromodomain helicase DNA binding protein 5
Synonyms:	CHD-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217757 representing NM_015557 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCGGGGCCCAGTGGGCACCGAGGAGGAGCTGCCGCGGCTGTTCGCCGAGGAGATGGAGAATGAGGACG AGATGTCAGAAGAAGAAGATGGTGGTCTTGAAGCCTTCGATGACTTTTTCCCTGTGGAGCCCGTGAGCCT TCCTAAGAAGAAGAAACCCAAGAAGCTCAAGGAAAACAAGTGTAAAGGGAAGCGGAAGAAGAAAGAGGGG AGCAATGATGAGCTATCAGAGAATGAAGAGGATCTGGAAGAGAAGTCGGAGAGTGAAGGCAGTGACTACT CCCCGAATAAAAAGAAGAAGAAGAAACTCAAGGACAAGAAGGAGAAAAAAGCCAAGCGAAAAAAGAAGGA TGAGGATGAGGATGATAATGATGATGGATGCTTAAAGGAGCCCAAGTCCTCGGGGCAGCTCATGGCCGAG TGGGGCCTGGACGACGTGGACTACCTGTTCTCGGAGGAGGATTACCACACGCTGACCAACTACAAGGCCT TCAGCCAGTTCCTCAGGCCACTCATTGCCAAGAAGAACCCGAAGATCCCCATGTCCAAAATGATGACCGT CCTGGGTGCCAAGTGGCGGGAGTTCAGCGCCAACAACCCCTTCAAGGGCAGCTCCGCGGCAGCAGCGGCG GCGGCGGTGGCTGCGGCTGTAGAGACGGTCACCATCTCCCCTCCGCTAGCCGTCAGCCCCCCGCAGGTGC CCCAGCCTGTGCCTATCCGCAAGGCCAAGACCAAGGAGGGCAAAGGGCCTGGAGTGAGGAAGAAGATCAA AGGCTCCAAAGATGGGAAGAAAAAGGGCAAAGGGAAAAAGACGGCCGGGCTCAAGTTCCGCTTCGGGGGG ATCAGCAACAAGAGGAAGAAAGGCTCCTCGAGTGAAGAAGATGAGAGGGAGGAGTCGGACTTCGACAGCG CCAGCATCCACAGTGCCTCCGTGCGCTCCGAATGCTCTGCAGCCCTGGGCAAGAAGAGCAAGAGGAGGCG CAAGAAGAAGAGGATTGATGATGGTGACGGCTATGAGACAGACCACCAGGATTACTGTGAGGTGTGCCAG CAGGGTGGGGAGATCATCCTGTGCGACACCTGCCCGAGGGCCTACCATCTCGTATGCCTGGACCCAGAGC TGGAGAAGGCTCCCGAGGGCAAGTGGAGCTGCCCCCACTGTGAGAAGGAGGGGATCCAGTGGGAGCCGAA GGACGACGACGATGAAGAGGAGGAGGGCGGCTGCGAGGAGGAGGAGGACGACCACATGGAGTTCTGCCGC

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Protein Sequence:

>RC217757 representing NM_015557
Red=Cloning site Green=Tags(s)

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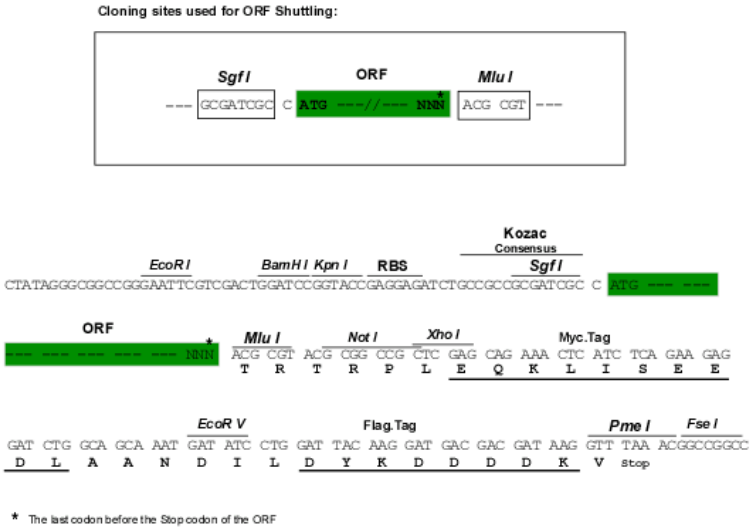
Chromatograms:

https://cdn.origene.com/chromatograms/mg4869_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015557

ORF Size: 5862 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

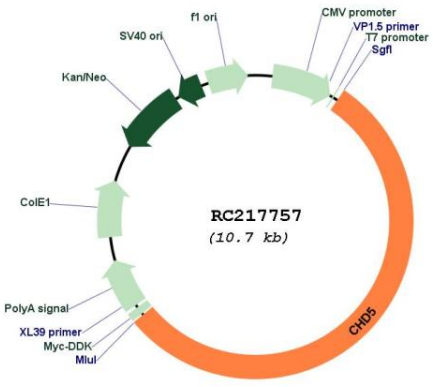
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

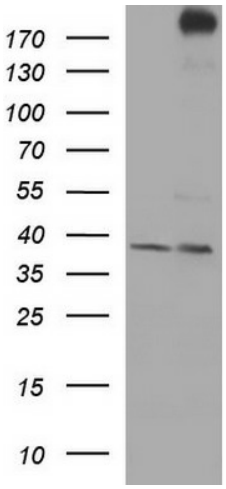
Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_015557.3
RefSeq Size:	9646 bp
RefSeq ORF:	5865 bp
Locus ID:	26038
UniProt ID:	Q8TDI0
Cytogenetics:	1p36.31
MW:	222.9 kDa
Gene Summary:	This gene encodes a member of the chromodomain helicase DNA-binding protein family. Members of this family are characterized by a chromodomain, a helicase ATP-binding domain and an additional functional domain. This gene encodes a neuron-specific protein that may function in chromatin remodeling and gene transcription. This gene is a potential tumor suppressor gene that may play a role in the development of neuroblastoma. [provided by RefSeq, Feb 2012]

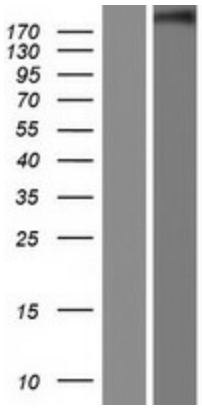
Product images:



Circular map for RC217757



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CHD5 (Cat# RC217757, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CHD5(Cat# [TA590515]). Positive lysates [LY414472] (100ug) and [LC414472] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY414472]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217757 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).