OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG211471

CHD3 (NM_001005271) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHD3 (NM_001005271) 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:

>RG211471 representing NM_001005271
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTTCCCCTCTGAGGGACGAGGAGGAGGAGGAGGAGGAGATGGTGGTGTCGGAGGAGGAAGAAGAGG
AGGAAGAAGAGGGCGACGAGGAGGAGGAGGAGGAGGTGGAGGCGGCCGACGAGGACGATGAGGAGGACGA
CGACGAGGGAGTACTCGGGCGCGGGCCGGGCCACGACCGGGGCCGCGACCGCCACAGCCCCCCCGGCTGC
CACCTCTTCCCGCCGCCGCCGCCGCCGCCGCCACCGCTGCCCCCGCCGCCGCCGCCCCCGCCGCCAGATA
AGGATGACATTCGGCTGCTGCCGTCAGCATTGGGTGTGAAGAAGAGAAAACGAGGACCCAAGAAGCAGAA
GGAGAACAAGCCAGGAAAACCCCGAAAACGCAAGAAGCGTGACAGTGAGGAGGAATTTGGTTCTGAGCGA
GATGAGTACCGGGAGAAGTCAGAGAGTGGGGGCAGTGAATATGGAACCGGACCGGGTCGGAAACGAAGAA
GGAAGCACCGAGAAAAAAAGGAGAAGAAGACAAAGCGGCGGAAAAAGGGGGAGGGAGATGGGGGGCAAAA
GCAAGTGGAACAGAAGTCATCAGCAACTCTGCTTCTGACCTGGGGCCTGGAGGATGTGGAGCATGTGTTC
TCTGAGGAGGATTACCACACGCTCACCAACTACAAAGCCTTCAGCCAGTTCATGAGGCCCCTAATTGCTA
AGAAGAATCCTAAGATCCCAATGTCTAAGATGATGACCATCCTTGGGGCCAAATGGAGAGAGTTCAGTGC
CAACAACCCCTTCAAGGGGTCAGCAGCTGCTGTGGCGGCGGCAGCGGCAGCAGCAGCAGCTGTAGCT
GAGCAGGTGTCAGCTGCTGTCTCGTCGGCCACCCCCATAGCACCCTCCGGACCCCCCGCCCTTCCACCAC
CCCCTGCTGCTGATATCCAGCCCCCACCCATCCGAAGAGCCAAAACCAAAGAGGGCAAAGGTCCAGGCCA
TAAGAGGCGGAGTAAGAGCCCCCGAGTGCCTGATGGACGCAAGAAGCTTCGGGGAAAGAAAATGGCACCA
CTCAAAATAAAACTAGGGCTTCTGGGTGGCAAGAGGAAGAAAGGAGGCTCGTATGTTTTTCAGAGCGACG
AAGGTCCTGAACCAGAGGCTGAGGAATCAGACCTGGACAGTGGCAGTGTCCACAGTGCCTCAGGCCGGCC
TGATGGCCCTGTCCGCACCAAGAAACTAAAGAGAGGCCGGCCAGGAAGGAAGAAGAAGAAGGTCCTGGGC
TGTCCTGCAGTGGCCGGGGAGGAGGAGGTTGATGGCTACGAGACGGATCACCAGGATTACTGTGAGGTGT
GCCAGCAGGGTGGGGAAATTATTCTGTGTGACACCTGCCCTCGTGCCTACCACCTCGTCTGCCTTGATCC
TGAGCTTGACCGGGCTCCAGAGGGCAAATGGAGCTGCCCTCACTGTGAGAAGGAGGGGGTCCAGTGGGAG

View online »

GCCAAGGAGGAAGAAGAAGAATACGAAGAGGAGGGAGAGGAAGAAGGGGAGAAGGAGGAGGAGGATGATC
ACATGGAGTACTGCCGCGTATGCAAGGACGGCGGGGAGCTCCTGTGCTGTGACGCGTGCATCTCCTCCTA
CCACATTCATTGTCTAAACCCTCCCCTGCCTGACATTCCCAATGGTGAATGGCTGTGTCCCCGATGCACA
TGCCCCGTGCTGAAGGGTCGAGTGCAGAAGATCCTACATTGGCGGTGGGGGGAGCCACCTGTAGCAGTGC
CAGCCCCTCAACAGGCAGATGGAAATCCAGATGTCCCACCCCCCCGTCCTCTTCAAGGCAGATCAGAGCG
AGAGTTCTTTGTCAAGTGGGTAGGACTATCCTACTGGCACTGCTCCTGGGCCAAGGAGCTTCAGCTGGAA
ATCTTCCATTTGGTTATGTATCGAAACTACCAGCGGAAGAATGACATGGATGAGCCCCCACCCCTGGACT
ATGGCTCCGGCGAGGATGATGGGAAGAGCGACAAGCGTAAAGTGAAAGACCCGCACTATGCTGAGATGGA
GGAGAAGTACTATCGTTTTGGCATCAAGCCAGAGTGGATGACCGTCCACCGCATCATCAACCACAGTGTG
GATAAAAAGGGGAATTACCACTATCTAGTAAAATGGAGGGACTTACCATATGACCAGTCCACGTGGGAGG
AAGATGAAATGAATATCCCTGAATACGAAGAACATAAGCAAAGCTACTGGAGACACCGAGAACTAATTAT
GGGGGAAGACCCTGCCCAGCCCCGCAAGTATAAGAAGAAGAAGAAGGAGCTACAGGGTGATGGGCCTCCC
AGTTCTCCCACTAATGATCCTACCGTGAAATATGAGACTCAGCCACGGTTTATCACAGCCACTGGAGGCA
CCCTGCACATGTATCAGTTGGAAGGGCTGAACTGGCTACGCTTCTCCTGGGCCCAGGGCACTGACACCAT
TCTAGCTGATGAGATGGGGCTAGGCAAGACCATACAAACCATCGTCTTCCTCTACTCACTCTACAAGGAG
GGCCACACAAAAGGTCCCTTCCTGGTGAGTGCCCCACTCTCTACCATCATTAACTGGGAGCGGGAGTTCC
AGATGTGGGCACCCAAATTCTATGTGGTGACATACACGGGTGACAAGGACAGCCGGGCCATCATTCGTGA
GAATGAATTCTCCTTTGAGGACAATGCCATCAAAGGGGGCAAGAAAGCTTTTAAGATGAAGAGGGAGGCA
CAGGTGAAGTTCCATGTTCTCCTGACATCGTATGAGCTGATCACCATTGATCAGGCAGCACTTGGTTCCA
TCCGCTGGGCCTGTCTTGTGGTAGATGAGGCCCATCGACTCAAGAACAACCAGTCCAAGTTTTTCAGGGT
TCTCAATGGTTACAAGATAGATCATAAGTTGCTGCTGACAGGAACCCCATTGCAGAATAATCTGGAGGAG
CTCTTCCATCTCCTGAACTTCCTCACCCCAGAGAGATTTAACAACTTGGAGGGCTTCCTGGAGGAGTTTG
CTGACATATCCAAAGAGGACCAGATCAAGAAACTGCATGATTTGCTGGGGCCACACATGCTGCGGAGACT
CAAGGCAGATGTCTTTAAGAACATGCCAGCCAAGACAGAGCTCATCGTTCGGGTGGAGCTAAGCCCCATG
CAGAAGAAATACTACAAATACATCCTGACTCGAAATTTTGAGGCCTTGAATTCACGAGGTGGTGGGAACC
AGGTGTCGCTGCTTAATATCATGATGGATCTTAAGAAGTGCTGCAACCATCCATACCTTTTTCCCGTGGC
TGCTATGGAGTCCCCCAAACTCCCCAGTGGGGCTTATGAGGGTGGGGCACTTATTAAGTCGTCTGGGAAG
CTCATGCTGCTCCAGAAGATGCTGCGAAAGCTGAAGGAGCAAGGACACCGAGTGCTCATCTTCTCGCAGA
TGACCAAAATGTTAGACTTGCTTGAGGACTTCTTAGACTATGAAGGCTACAAGTATGAGCGCATCGATGG
TGGTATCACGGGTGCCCTGAGGCAGGAGGCCATCGATCGGTTTAATGCTCCTGGGGCCCAACAATTCTGC
TTCCTCCTGTCCACCCGAGCTGGGGGCCTGGGCATCAATCTGGCCACTGCTGACACTGTCATCATCTTTG
ATTCTGACTGGAACCCCCATAATGACATCCAGGCCTTTAGCCGGGCTCATCGGATTGGCCAGGCCAACAA
AGTGATGATTTACCGGTTTGTGACTCGCGCGTCAGTGGAAGAGCGAATCACACAAGTGGCCAAGAGAAAG
ATGATGCTGACACACCTGGTTGTGCGGCCTGGGCTGGGCTCCAAGGCAGGCTCCATGTCCAAGCAGGAGC
TTGACGACATTCTCAAATTTGGCACTGAAGAGCTATTCAAGGATGAAAACGAGGGGGAGAACAAGGAGGA
GGACAGCAGTGTGATTCATTATGACAATGAGGCCATCGCTCGGCTGTTGGACCGGAACCAGGATGCAACT
GAGGACACTGACGTGCAGAACATGAATGAGTATCTCAGCTCCTTCAAGGTGGCACAGTACGTCGTGCGGG
AAGAAGACAAGATTGAGGAAATTGAGCGAGAGATCATCAAGCAGGAGGAGAATGTGGACCCTGACTACTG
GGAGAAGCTGCTGAGGCATCACTATGAGCAACAGCAGGAAGACCTAGCCCGGAATCTAGGCAAGGGCAAG
CGGGTTCGCAAGCAAGTTAACTACAATGATGCTGCTCAGGAAGACCAAGACAACCAGTCAGAGTACTCGG
TGGGTTCAGAGGAGGAGGATGAAGACTTCGATGAACGTCCTGAAGGGCGTAGACAGTCAAAGAGGCAGCT
CCGGAATGAGAAAGATAAGCCACTGCCTCCACTGCTGGCCCGAGTCGGGGGCAACATTGAGGTGCTGGGC
TTCAACACCCGTCAGCGGAAGGCTTTCCTCAATGCTGTGATGCGCTGGGGGATGCCACCACAGGATGCCT
TCACCACACAGTGGCTGGTGCGGGACCTGAGGGGCAAGACTGAGAAGGAGTTTAAGGCCTATGTGTCTTT
GTTCATGCGCCATCTGTGTGAGCCTGGGGCAGACGGCTCTGAAACCTTTGCCGATGGGGTCCCTCGGGAG
GGACTGAGTCGCCAGCAGGTGTTGACCCGCATTGGAGTCATGTCTCTCGTCAAAAAGAAGGTGCAGGAGT
TTGAGCACATCAATGGGCGTTGGTCAATGCCGGAACTGATGCCTGACCCCAGCGCCGATTCTAAGCGCTC
CTCCAGAGCCTCCTCTCCTACCAAAACGTCTCCCACCACTCCTGAGGCTTCTGCTACCAACAGTCCCTGC
ACCTCTAAACCTGCTACTCCAGCTCCAAGTGAGAAAGGAGAAGGCATAAGGACACCTCTTGAGAAGGAGG
AAGCTGAAAACCAGGAGGAAAAGCCAGAGAAGAACAGCAGAATTGGGGAGAAGATGGAGACAGAGGCTGA
TGCCCCCAGCCCAGCCCCATCACTTGGGGAGCGGCTGGAGCCAAGGAAGATTCCTCTAGAGGATGAGGTG
CCAGGGGTGCCTGGAGAGATGGAGCCTGAACCTGGGTACCGTGGGGACAGAGAGAAGTCAGCCACAGAGT

CGACGCCAGGAGAAAGGGGGGAGGAGAAGCCGTTGGATGGACAGGAACACAGGGAGAGGCCGGAGGGGGA
AACAGGGGATTTGGGCAAGAGAGAAGATGTAAAAGGTGACCGGGAGCTTCGACCAGGGCCTCGAGATGAG
CCACGGTCCAATGGGCGACGAGAGGAAAAGACAGAGAAGCCCCGGTTCATGTTCAATATCGCCGATGGTG
GCTTCACAGAGCTTCACACACTGTGGCAGAATGAGGAACGGGCAGCTATTTCCTCGGGGAAACTCAATGA
GATCTGGCACAGAAGACATGACTATTGGCTTCTGGCTGGGATTGTCCTCCATGGCTATGCACGGTGGCAG
GACATCCAGAATGATGCTCAATTTGCCATTATCAACGAGCCATTTAAAACTGAAGCCAATAAGGGGAACT
TTCTGGAGATGAAAAATAAGTTCCTGGCCCGGAGGTTCAAGCTCCTGGAGCAGGCGCTGGTGATTGAGGA
GCAGCTGCGGCGGGCGGCCTACCTGAACCTGTCGCAGGAGCCGGCGCACCCCGCCATGGCCCTCCACGCC
CGCTTCGCCGAGGCCGAGTGCCTGGCCGAGAGCCACCAGCACCTCTCCAAGGAGTCGCTGGCGGGGAACA
AGCCGGCCAACGCCGTCCTGCACAAGGTTCTGAACCAGCTGGAGGAGTTGCTGAGCGACATGAAGGCGGA
CGTGACCCGCCTGCCAGCCACGCTGTCCCGAATACCCCCCATCGCAGCCCGCCTTCAGATGTCCGAGCGC
AGCATCCTCAGCCGGCTGGCCAGCAAGGGCACGGAGCCTCACCCCACACCGGCCTACCCGCCGGGTCCCT
ACGCTACACCTCCGGGGGTACGGGGCGGCCTTCAGCGCCGCACCCGTAGGGGCCCTGGCCGCCGCAGGCGC
CAATTACAGCCAGATGCCTGCAGGGTCCTTCATCACAGCCGCCACCAACGGCCCTCCAGTGCTTGTGAAG
AAGGAGAAGGAAATGGTGGGGGCATTGGTGTCAGACGGGCTGGATCGGAAGGAGCCCCGAGCCGGGGAGG
TGATCTGTATAGACGAC

ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

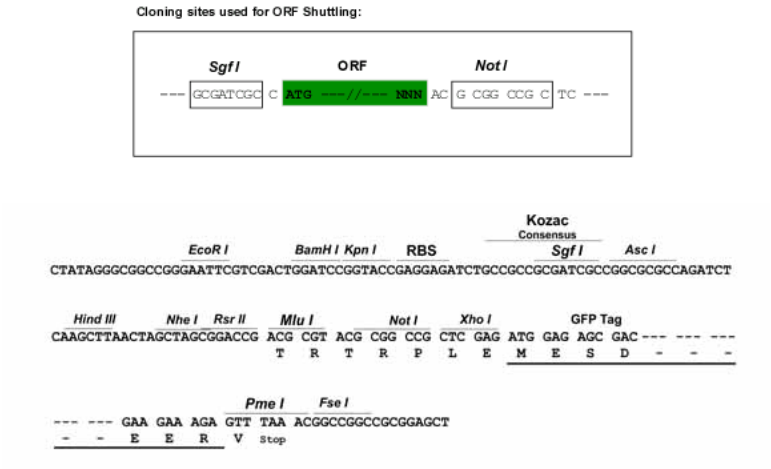
>RG211471 representing NM_001005271
Red=Cloning site Green=Tags(s)

MASPLRDEEEEEEEMVVSEEEEEEEEEGDEEEEEEVEAADEDDEEDDDEGVLGRGPGHDRGRDRHSPPGC
HLFPPPPPPPPPLPPPPPPPPPDKDDIRLLPSALGVKKRKRGPKKQKENKPGKPRKRKKRDSEEEFGSER
DEYREKSESGGSEYGTGPGRKRRRKHREKKEKKTKRRKKGEGDGGQKQVEQKSSATLLLTWGLEDVEHVF
SEEDYHTLTNYKAFSQFMRPLIAKKNPKIPMSKMMTILGAKWREFSANNPFKGSAAAVAAAAAAAAAAVA
EQVSAAVSSATPIAPSGPPALPPPPAADIQPPPIRRAKTKEGKGPGHKRRSKSPRVPDGRKKLRGKKMAP
LKIKLGLLGGKRKKGGSYVFQSDEGPEPEAEESDLDSGSVHSASGRPDGPVRTKKLKRGRPGRKKKKVLG
CPAVAGEEEVDGYETDHQDYCEVCQQGGEIILCDTCPRAYHLVCLDPELDRAPEGKWSCPHCEKEGVQWE
AKEEEEEYEEEGEEEGEKEEEDDHMEYCRVCKDGGELLCCDACISSYHIHCLNPPLPDIPNGEWLCPRCT
CPVLKGRVQKILHWRWGEPPVAVPAPQQADGNPDVPPPRPLQGRSEREFFVKWVGLSYWHCSWAKELQLE
IFHLVMYRNYQRKNDMDEPPPLDYGSGEDDGKSDKRKVKDPHYAEMEEKYYRFGIKPEWMTVHRIINHSV
DKKGNYHYLVKWRDLPYDQSTWEEDEMNIPEYEEHKQSYWRHRELIMGEDPAQPRKYKKKKKELQGDGPP
SSPTNDPTVKYETQPRFITATGGTLHMYQLEGLNWLRFSWAQGTDTILADEMGLGKTIQTIVFLYSLYKE
GHTKGPFLVSAPLSTIINWEREFQMWAPKFYVVTYTGDKDSRAIIRENEFSFEDNAIKGGKKAFKMKREA
QVKFHVLLTSYELITIDQAALGSIRWACLVVDEAHRLKNNQSKFFRVLNGYKIDHKLLLTGTPLQNNLEE
LFHLLNFLTPERFNNLEGFLEEFADISKEDQIKKLHDLLGPHMLRRLKADVFKNMPAKTELIVRVELSPM
QKKYYKYILTRNFEALNSRGGGNQVSLLNIMMDLKKCCNHPYLFPVAAMESPKLPSGAYEGGALIKSSGK
LMLLQKMLRKLKEQGHRVLIFSQMTKMLDLLEDFLDYEGYKYERIDGGITGALRQEAIDRFNAPGAQQFC
FLLSTRAGGLGINLATADTVIIFDSDWNPHNDIQAFSRAHRIGQANKVMIYRFVTRASVEERITQVAKRK
MMLTHLVVRPGLGSKAGSMSKQELDDILKFGTEELFKDENEGENKEEDSSVIHYDNEAIARLLDRNQDAT
EDTDVQNMNEYLSSFKVAQYVVREEDKIEEIEREIIKQEENVDPDYWEKLLRHHYEQQQEDLARNLGKGK
RVRKQVNYNDAAQEDQDNQSEYSVGSEEEDEDFDERPEGRRQSKRQLRNEKDKPLPPLLARVGGNIEVLG
FNTRQRKAFLNAVMRWGMPPQDAFTTQWLVRDLRGKTEKEFKAYVSLFMRHLCEPGADGSETFADGVPRE
GLSRQQVLTRIGVMSLVKKKVQEFEHINGRWSMPELMPDPSADSKRSSRASSPTKTSPTTPEASATNSPC
TSKPATPAPSEKGEGIRTPLEKEEAENQEEKPEKNSRIGEKMETEADAPSPAPSLGERLEPRKIPLEDEV
PGVPGEMEPEPGYRGDREKSATESTPGERGEEKPLDGQEHRERPEGETGDLGKREDVKGDRELRPGPRDE
PRSNGRREEKTEKPRFMFNIADGGFTELHTLWQNEERAAISSGKLNEIWHRRHDYWLLAGIVLHGYARWQ
DIQNDAQFAIINEPFKTEANKGNFLEMKNKFLARRFKLLEQALVIEEQLRRAAYLNLSQEPAHPAMALHA
RFAEAECLAESHQHLSKESLAGNKPANAVLHKVLNQLEELLSDMKADVTRLPATLSRIPPIAARLQMSER
SILSRLASKGTEPHPTPAYPPGPYATPPGYGAAFSAAPVGALAAAGANYSQMPAGSFITAATNGPPVLVK
KEKEMVGALVSDGLDRKEPRAGEVICIDD

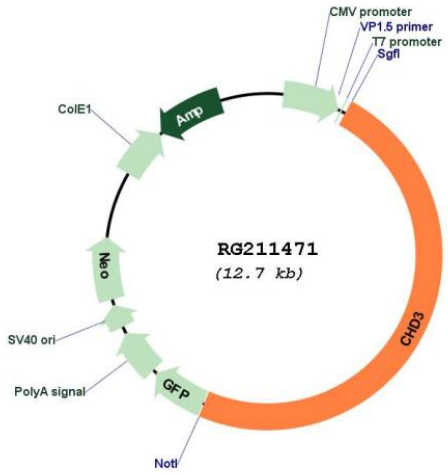
TRPLE - GFP Tag - V

Restriction Sites: SgfI-NotI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001005271
ORF Size:	6177 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_001005271.3
RefSeq Size:	7372 bp
RefSeq ORF:	6180 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]