

## Product datasheet for **RG221060**

### CHD7 (NM\_017780) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHD7 (NM_017780) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHD7
Synonyms:	CRG; HH5; IS3; KAL5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221060 representing NM_017780 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGATCCAGGAATGATGAGTCTTTTTGGCGAGGATGGGAATATTTTCAGTGAAGGTCTTGAAGGCC  
TCGGAGAATGTGGTTACCCGAAAATCCAGTAAATCCTATGGGTGAGCAATGCCAATAGACCAAGGCTT  
TGCCCTTTACAGCCATCCCTTCATCATCTTCAACTAATCAAAATCAAACAAGCTGACACATTTTGTAT  
CACTATAATCAGTATGAACAACAAAAGATGCATCTGATGGATCAGCCGAACAGAATGATGAGCAACACCC  
CTGGGAACGGACTCGCGTCTCCGACTCGCAGTATCACACCCCTCCCGTTCCTCAGTGGCCCATGGTGG  
CAGTGGTGGCGGTGATGGGTGTCTACCCTGGCATGCAGAATGAGAGGCATGGGCAATCCTTTGTGGAC  
AGCAGCTCCATGTGGGGCCCCAGGGCTGTTACAGTACCAGACCAGATACGAGCCCCCTACCAGCAGCAGC  
AGCCACAGCCCGACCCAGCCAGCCGGCTCCGTCGGGGCCCCCTGCACAGGGCCACCCCTCAGCACATGCA  
GCAGATGGGCAGCTATATGGCACGTGGGGATTTTTCCATGCAGCAGCATGGTCAGCCACAGCAGAGGATG  
AGCCAGTTTTCCAAGGCCAAGAGGGCCTCAATCAGGGAAATCCTTTTATTGCCACCTCAGGACCTGGCC  
ACTTGTCCACGTGCCCCAGCAGATCCAGCATGGCACCTTCTTGGTCACTCGGTGCAGCAGTTCCA  
TCACCACCCCTCTACTGCTCTCCATGGAGAATCCGTTGCCACAGTCCCAGATTTCCCCGAATCCTCCC  
CAACAAGGGGCTGTTAGGCCGCAAACCCCTAACTTTAGTTCTCGGAGCCAGACAGTCCCCTCTCCTACTA  
TAAACAACCTCAGGGCAGTATTCTCGATATCCTTACAGTAACCTAAATCAGGGATTAGTTAACAATACAGG  
GATGAATCAAAATTTAGGCCTTACAATAATACTCCAATGAATCAGTCCGTACCAAGATACCCCAATGCT  
GTAGGATCCCATCAAACAGTGGTCAAGGACTAATGCACCAGCAGCCATCCACCCAGTGGCTCACTTA  
ACCAAAATGAACACACAACTATGCATCCTTACAGCCTCAGGGAACCTTATGCCTCTCCACCTCCCATGTC  
ACCCATGAAAGCAATGAGTAATCCAGCAGGCACTCCTCTCCACAAGTCAGGCCGGGAAGTGTGGGATA  
CCAATGGAAGTTGGCAGTTATCCAATATGCCCATCCTCAGCCATCTACCAGCCCCCTGGTCCATGG  
GAATCGGACAGAGGAATATGGGGCCAGAAACATGCAGCAGTCTCGTCCATTTATAGGCATGTCTCGGC  
ACCAAGGGAATTGACTGGGCACATGAGGCCAAATGGTTGCTGTTGGCCTTGAGACCCACAAGCA



[View online »](#)

ATCCAGGAACGACTGATACCTGGCCAACAACATCCTGGTCAACAGCCATCTTTTCAGCAGTTGCCAACCT  
GTCCTCCACTGCAGCCTCACCCGGGCTTGACCACCAGTCTTACCTCCACACCCTCATCACCAGCCTTG  
GGCACAGCTCCACCCATCACCCAGAACACCCCGAGAAAGTGCCTGTGCATCAGCATTCCCCGTCGGAG  
CCCTTTCTAGAGAAACAGTGCCGGATATGACTCAGGTTAGTGGACCGAATGCTCAGCTAGTGAAGATG  
ATGATTACCTGCCATCAATAGAACAGCAGCCACAACAAAAGAAGAAGAAAAGAAAACAACCACATTGT  
AGCAGAGGATCCCAGTAAAGTTTTGGTAAAGATGACTCCCTGGTGGGTAGATAACCAAGAACTAAAT  
AGGAACTCACTGGATGGTCCCAAGAAGAAAAAGAAAAAGTCAAAGGCCAAAAAGACCCCGA  
AGGAACCGAAAGAACCCAAAGGAGAAAAAGAGCCCAAGGAACCCAAAGACCCCGAAAGCCCTAAGATTCC  
CAAAGAGCCAAAGGAAAAAGCAAAAAGTCCACGCAAAAAACCCAAATCCAGCAAAAAAGTCAAGTAAT  
AAGAAACCTGACTCAGAAGCAAGTGCTTTGAAGAAAAAGGTCAACAAGGGAAAAACAGAAGTTCTGAAA  
ATTCAGACTTAGACAAAAACCCCCACCATCTCCTCCTCTGAAGAAGATGAGGACCCAGGTGTTGAGAA  
GAGACGGTCCAGCAGACAGGTGAAGAGAAAGCGCTACACTGAAGACCTGGAGTTCAAGATTTCTGATGAG  
GAGGCAGATGATGCAGATGCTGCTGGGAGGATCCCCCTCCAACACCTCCAGTCAGAACAGCAGGAAT  
CTGTTGATGCAGAAGGCCAGTGGTAGAAAAATATGAGCAGTCGTTCAAGTAAAAAGCAGAAGGAATC  
TGGAGAGGAGGTAGAAATTGAGGAATCTATGTGAAATACAAAACTTCTTATCTTCATTGTCAGTGG  
GCATCTATAGAAGATCTGAAAAAGATAAGAGAATTGAGCAAAAAATTAACGATTTAAGGCAAAGCAGG  
GCCAGAACAAGTTCTTTTCAGAGATTGAGGATGAGCTTTTTAATCCAGATTATGTGGAGGTTGACCGGAT  
AATGGACTTTGCACGTAGCACAGATGACCGGGGAGAGCCTGTGACTCACTATCTGGTGAAGTGGTGTTC  
CTTCTTATGAAGACAGCACGTGGGAGCGGAGGCAGGACATAGATCAAGCAAAGATCGAGGAGTTTGAGA  
AACTAATGTCCAGGGAGCCGAAACAGAGCGTGTGGAGCGACCTCCTGCTGATGATTGGAAGAAATCGGA  
GAGTTCAGGGAGTATAAAAAACAATAACAACTCAGGGAATACCAGTTGGAGGGAGTAACTGGCTACTT  
TTCAATTTGGTACAACATGCGAAACTGCATTTTAGCAGATGAAATGGGTTGGGAAAAACTCCAGTCCA  
TTACATTTCTCTATGAGATATATTTGAAAGGAATCCATGGCCCTTTTTTAGTAATTGCCCATTTGCCAC  
AATCCCCAACTGGGAAAGGGAATTCGAACTGGACAGAGTTGAACGTGGTTGTGTATCATGGGAGTCAA  
GCTAGTCGTCGGACCATTCAGTTGTATGAAATGTACTTCAAAGATCCCCAGGGTCGAGTGATAAAGGGT  
CCTATAAGTTTTCATGCCATCATCACTACATTTGAGATGATTTTACTGATTGTCCTGAGCTGCGGAATAT  
TCCATGGCGCTGTGTAGTCATTGATGAAGCCACAGGCTGAAGAACAGGAACTGCAAGCTGTTGGAGGGA  
CTCAAGATGATGGACTTGAACACAAAGTGTGCTGACGGGAACCCCACTCCAGAACACTGTGGAAGAAC  
TCTTCAGCTTGCCTCATTCTTGGAAACCAAGTCGCTTCCCTTCAGAAACCACATTTATGCAAGAATTTGG  
TGATCTAAAAACAGAAGAGCAGGTGCAAAAACTCAAGCTATTCTAAAGCCAATGATGTTGAGACGCTC  
AAAGAGGATGTAGAAAAGAACTTGCCCCCAAAGAAGAACTATTATTGAAGTTGAGCTAACAAACATTC  
AGAAGAAATATTACCGAGCCATCCTTGAGAAGAAATTCACATTTCTTCCAAAGGCGGTGGTCAAGCTAA  
CGTACCTAACCTATTAACACTATGATGGAATTGCGGAAGTGTGCAATCATCCGTACCTTATCAATGGT  
GCTGAAGAGAAAAATTTGGAAGAGTTTAAAGAAACACACAATGCAGAGTCTCCAGATTTTCAGCTCCAGG  
CAATGATCCAGGCTGCTGGCAAGCTAGTGTGATTGACAAGCTGCTGCCAAAAGTGAAGGCTGGTGGCCA  
CAGGGTGCCTATCTTTCCAGATGGTGCCTGCTTGGACATACTGGAAGACTACCTCATTCAAAGACGG  
TACCCATATGAAAGGATCGACGGCCGAGTAAGAGGCAACCTCCGCCAGGCAGCTATCGACAGATTCTCCA  
AACCTGATTCTGATAGGTTTGTCTTCTCCTGTGTACAAGGCAGGAGGTTTAGGCATTAACCTCACTGC  
TGCTGATACCTGCATCATCTTTGATTGACTGGAATCCCCAAAATGACCTCCAGCTCAGGCTAGATGT  
CATAGAATAGGACAGAGCAAACTGTGAAAATCTACAGGCTGATTACAAGAAATTCCTATGAAAGGGAAA  
TGTTTCGACAAGGCTAGTTTGAAGTGGGCTGGATAAAGCTGTGCTACAGTCTATGAGTGAAGAGAAAA  
TGCTACCAATGGGTACAACAGCTTTCCAAGAAAGAAATAGAGGATCTTCTACGAAAAGGGGCTATGGT  
GCACTCATGGATGAGGAGGATGAAGGTTCTAAATCTGTGAAGAAGATATTGATCAGATCCTCCTACGTC  
GAACCCACACCATTACCATTGAGTCAGAAGGAAAGGTTCCACATTTGCTAAGGCCAGTTTTGTTGCATC  
TGGAAATAGGACAGATATTTCTTGGATGATCCAAATTTCTGGCAAAAGTGGGCTAAGAAGGCTGAATTG  
GATATTGATGCCTTAAATGGGAGGAACAACCTGGTTATTGATACTCCAAGAGTGAGAAAGCAGACCAGGC  
TCTACAGTGCAGTGAAGGAAGATGAGCTGATGGAGTTCTCAGACTTGGAAAGTATTCTGAAGAAAAGCC  
CTGTGCAAAGCCACGGCTCCCCAGGATAAGTCAAGGGCTATGCAAGGAGTGAATGTTTCAGGGTGGAG  
AAGAATCTGCTTGTCTATGGTTGGGACGGTGGACAGACATTTCTTCCACGGACGCTATAAACGCCAAC  
TCACTGAGCAAGATGTAGAAACCATCTGCAAGAACCATCCTGGTGTACTGTCTTAATCATTACAAAGGGGA  
TGAGAATATCAAAGCTTCATCTGGATCTGATCACACCCACAGCGGATGGCCAGACTCGAGCCTTGGTC  
AACCATCCGTTTGTGAGCTCCTGTGCCAAGGGGAAGGAAGGGAAGAAAGGTGAAAGCCAGAGCACAC

AGCCGGTGGTGCAGGATGCCGACTGGCTGGCCAGCTGCAACCCAGATGCCCTGTTCCAGGAGGACAGCTA  
 CAAGAAACACCTGAAGCATCACTGTAACAAGGTCTGCTGCGTGTCCGCATGCTGTACTACCTAAGACAA  
 GAAGTGATAGGAGACCAGGCGGATAAGATCTTAGAGGGTGTGACTCAAGTGAAGCCGATGTGTGGATCC  
 CTGAACCTTTCCATGCTGAAGTTCCTGCAGATTGGTGGGATAAGGAAGCAGACAAATCCCTCTTAATTGG  
 AGTGTTCAAACATGGCTATGAGAAGTACAACCTCCATGCGAGCTGACCCCGCGCTGTGCTTTCTGGAACGA  
 GTCGGTATGCCTGATGCCAAGGCCATAGCTGCCGAGCAAAGAGGAACAGACATGCTAGCAGATGGTGGTG  
 ACGGGGAGAATTTGATAGAGAAGATGAAGACCAGAATATAAACCAACCAGAACACCGTTCAAAGATGA  
 AATAGATGAATTTGCAAATTCCTTCAGAGGATAAGGAAGAATCCATGGAATACATGCCACAGGCAAG  
 CACAGTGAGAGTAATGCTGAGTTAGGCCAACTTTACTGGCCTAACACTTCAACCTGACTACACGCTCTGC  
 GCCGGCTCATTACTGCCTATCAGCGCAGCTATAAAAGGCAACAGATGAGGCAAGAGGCCCTAATGAAGAC  
 TGACCGGCGCAGACGGCGCCTCGAGAGGAAGTGAAGCTCTGGAAGCGGAAAGGGAAGCTATTATATCT  
 GAGAAGCGGCAAAAGTGGACAAGAAGAGAAGAGGCTGATTTTTACCGTGTGGTATCCACCTTTGGGGTTA  
 TTTTTGACCTGTGAAACAGCAATTTGACTGGAACCAATTTAGAGCCTTGGCCAGCTTGACAAAAATC  
 TGATGAGAGTTTGAGAAATACTTCAGTTGTTTTGTGGCCATGTGTAGGCGAGTATGTCGAATGCCCGTC  
 AAGCCAGATGATGAACCGCCGACCTCTCCTCCATAATTGAGCCGATCACAGAGGAGCGAGCCTCTCGAA  
 CTCTGTACCGCATTGAGCTGCTACGGAAGATCCGCGAGCAGGTTCTCCATCACCCCCAGCTGGGAGAGAG  
 GCTTAAGCTCTGCCAGCCAAGCTTGATCTGCCAGAGTGGTGGGAGTGTGGACGGCATGACCGAGACTTG  
 CTGTTGGTGTGCTGCTAAACACGGGGTCACTCGGACGGATTATCACATCCTCAATGACCCTGAGTTATCCT  
 TCTTGGATGCACATAAAAATTTGCTCAAAACAGAGGGGCGAGTAATACATCTTCTTGAACCCACTGGC  
 AGTTGGATTTGTCAGACTCCTCCAGTCATCTCATCTGCTCATATTAAGATGAGAGGGTACTGGAACAA  
 GCCGAAGGCAAAGTGGAGGAGCCTGAAAACCCAGCTGCCAAGGAGAAATGTGAGGGCAAAGAAGAGGAAG  
 AAGAAACCGATGGCAGCGGGAAGGAGAGCAAGCAGGAATGTGAGGCAGAGGCCAGCTCTGTGAAAAATGA  
 ACTGAAAGGTGTTGAGGTGGCGCAGACTGGTCCAAATCTATTTAGAGAAAGGTTCCGAAGAGGAT  
 GAAGAGGAAAAGCTGGAGGATGACGATAAGTCCGAAGAGTCTTCCAGCCGAAGCAGGAGCTGTCTCTA  
 GAGGGAAGAATTTGATGAAGAAAGCAATGCTTCCATGAGCACTGCTAGAGATGAAACCCGAGATGGATT  
 CTACATGGAGGACGGAGATCCTTCAGTAGCTCAGCTCCTTCATGAAAGAACATTTGCCTTCTCGTTTTGG  
 CCTAAGGATAGAGTAATGATAAACCGCTTAGACAACATCTGTGAAGCAGTGTGAAAGGCAAATGGCCAG  
 TAAATAGGCGCCAGATGTTTGTATTTCAAGGCCTCATCCAGGTTACACACCCACCACAGTGACAGCCC  
 CTTGCAGAAGAGGAGCTTTGCTGAGCTCCTATGGTGGCCAAGCCAGCATTAGTGGGAGTGAGGACATC  
 ACTACGCTCCTCAGTTGTCAAAGGAAGATGCCCTCAACCTCTCTGTCCCTGCCAGCGGAGGAGGAGGA  
 GGAGAAAAATCGAAATTTGAGGCCGAAAGAGCTGCCAAGAGGCGAAATCTCATGGAGATGGTTGCCAGCT  
 TCGAGAGTCTCAGGTGGTCTCAGAAAAATGGACAAGAAAAAGTTGTAGATTTATCAAAGGCCCTCAAGAGAG  
 GCAACAAGCTCTACCTCAAATTTTTATCTCTTTCTTCAAAGTTTATCTTGCCTAATGTCTCAACACCAG  
 TGTCTGATGCCTTTAAGACTCAAATGGAAGTGTCCAAGCAGGCCTTTCGCGCACACCCACAAGGCATCT  
 CCTAATGGCTCCCTAGTGGATGGAGAGCCTCCCATGAAGAGGAGGCGGGGAAGGAGGAAAAATGTGGAG  
 GGACTTGATCTGCTTTTCATGAGCCACAACCGGACGTCATTGAGTGCAGAGGATGCTGAGGTGACCAAAG  
 CTTTTGAAGAAGATATAGAGACCCACCAACAAGAAACATTCTTCTCCCGACAGCTGGACCCAGACAC  
 ACGGATCCCTGTTATCAATCTTGAAGATGGACTAGGCTGGTGGGGAAGATGCTCCTAAAAATAAGGAT  
 TTAGTTGAATGGCTGAAGCTGCACCTACTTACACTGTTGATATGCCAAGTTATGTACCAAGAATGCAG  
 ATGTGCTGTTTTCTCATTTTCAGAAACCGAAACAGAAACGACATAGATGTCGAAACCTAATAAATTGGA  
 TATAAACACTTTGACAGGAGAAGAAAGGTGCCTGTTGTCAATAAACGAAATGGGAAGAAGATGGGTGGA  
 GCTATGGCGCCTCCAATGAAGGATCTACCCAGGTGGCTGGAAGAAAAATCCTGAATTTGCAGTTGCTCCAG  
 ACTGGACTGATATAGTTAAGCAGTCTGTTTTGTTCTGAGTCGATGTTTGACCGCCTTCTCACTGGGCC  
 TGTAGTGCGGGAGAGGGAGCGAGCAGAAGAGGAAGAAGGCCAAAAGTGAAGATCGCCAGAGCAGCCGCG  
 GCCCGCTGCTGTGGCCTCCACGTCAGGGATCAACCTTTGCTGGTGAACAGCCTGTTTGTGGAATGG  
 ACCTGACGAGCCTCAGAATCTCCAGAATCTCCAGTCGCTCCAGCTGGCAGGCCTCATGGCTTCCCTCC  
 AGGACTGGCAACAGCTGCCACCGCGGAGGCGATGCGAAGAACCCTGCTGCTGTGCTGCCCTGATGCTG  
 CCAGGAATGGCGGCCTGCCAACGTGTTGGCTTGGCGGGCTGTTGAATAACCCTCTGTGAGCTGCTA  
 CTGGAAACACCACTACTGCTTCTAGTCAAGGAGAACCAGGAGACAGCACTTCAAAAGGAGAGGAGAAAGG  
 AAATGAGAATGAAGACGAGAACAAGACTCTGAGAAAAGCACAGATGCTGTTTTCGGCTGCTGACTCTGCG  
 AATGGATCTGTTGGTGTGCTACTGCCCGGCTGGATTGCCCTCAAACCCGCTAGCCTTCAACCTTTCC  
 TCCTGTCCCAATGGCCCGGGCCTTCTACCCATCCATGTTTCTACCTCCAGGACTGGGGGATTGAC

GCTGCCTGGGTTCCAGCATTGGCAGGACTTCAGAATGCCGTGGGCTCCAGCGAAGAAAAGGCTGCTGAC  
AAGGCTGAGGGAGGACCCTTTAAAGATGGAGAGACCCTTGAAGGCAGCGATGCCGAGGAGAGCCTGGATA  
AGACTGCAGAGTCCTCCCTTTAGAAGACGAAATAGCACAGGGTGAAGAGCTAGACTCACTTGATGGGGG  
GGATGAAATAGAAAACAATGAAAATGATGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

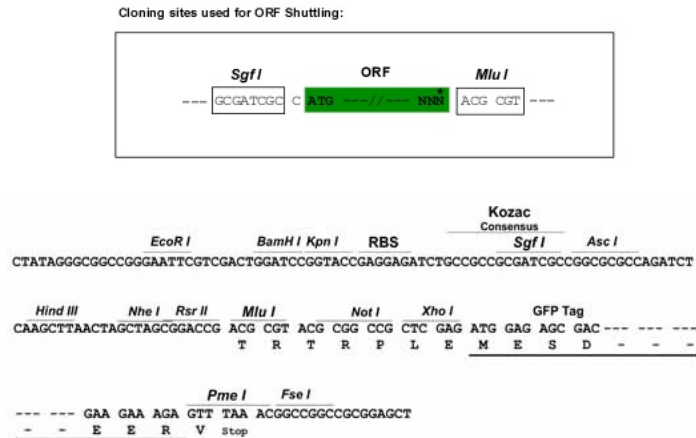
**Protein Sequence:** >RG221060 representing NM\_017780  
 Red=Cloning site Green=Tags(s)

MADPGMMSLFGEDGNIFSEGLEGLGECGYPENPVNPMGQQMPIDQGFASLQPSLHHPSTNQNTKLTHTFD  
 HYNQYEQQKMHMLMDQPNRMSNTPGNGLASPHSQYHTPPVPQVPHGGSGGGQMGVYPGMQNERHGSFVD  
 SSSMWGPRAVQVPDQIRAPYQQQQPQPAPSGPPAQGHPQHMQMGSYMARGDFSMQQHGGQPQRM  
 SQFSQQQEGLNQGNPFIATSGPGHL SHVPQQSPSMAPSLRHSVQQFHHPSTALHGESVAHSPRFSNPNA  
 QQGAVRPQTLNFSRSQTVPSPPTINNSGQYSRYPSNLNQGLVNNQGMNQNLGLTNNTPMNQSVPRYPNA  
 VGFPSNSGQGLMHQQPIHPSGSLNQMNQTMHPSQPQGTYASPPMSPMKAMSNAAGTAPPQVPRGSAGI  
 PMEVGSYNMPHPQPSHQPPGAMGIGQRNMGPRNMQQSRPFIGMSSAPREL TGHMRPNGCPGVGLGDPQA  
 IQERLIPGQQHPGQQPSFQQLPTCPPLQPHPLHHQSSPPHPHHQPWAQLHPSQNTPTQKVPVHQHSPSE  
 PFLKPVDPMTQVSGPNAQLVKSDDYLPSEIQQPQQKKKKKNNHI VAEDPSKGF GKDDFPGGVDNQELN  
 RNSLDGSEQEKKKKRKAKKDPKEKPEKPEKTPKAPKIPKEKPEKAKATATPKPKSSKSSN  
 KKPDEASALKKKVNKGKTEGSENSLDKTPPPSPPEEDEDPGVQKRRSRQVKKRYTEDLEFKISDE  
 EADDADAAGRDSPTSNTSQSEQESVDAEGPVVEKIMSSRSYKQKQESGEEVEIEEFYVKYKNFSYLHCQW  
 ASIEDLEKDKRIQQIKRFAKQGNKFLSEIEDEL FNPDYVEVDRIMDFARSTDDRGEPVTHYLKWCSS  
 LPYEDSTWERRQDIDQAKIEEFELMSREPETERVERPPADDWKKSESSREYKNNNKLREYQLEGVNWLL  
 FNWYNMRCILADEMGLKTIQSITFLYEIYLKGIHGPFLVIAPLSTIPNWEREFRTWTELNVVVYHGSQ  
 ASRRTIQLYEMYFKDPQGRVIGKSYKFAIITTFEMILTDCPELRNIPWRCVVIDEAHRLKRNCKLLEG  
 LKMMDLHKVLLTGTPLQNTVEELFSLHLFLEPSRFPSETTFMQEFGDLKTEEQVQLQAAILKPMMLRRL  
 KEDVEKNLAPKEETIEVELTNIQKKYYRAILEKNFTFLSKGGQANVNLNTMMELRKCCHPYLING  
 AEEKILEEFKETHNAESPDFLQAMIQAAGKVLIDKLLPKLKAGGHRVLI F SQMVRCLDILEDYLIQRR  
 YPYERIDGRVGRNLRQAAIDRF SKPDSDRFVFLLC TRAGGLGINLTAADTCIIFSDWNPQNDLQAQARC  
 HRIGQSKSVKIYRLITRNSYEREMFDKASLKLGLDKAVLQSMSGRENATNGVQQLSKKEIEDLLRKGAYG  
 ALMDEEDEGSKFCEEDIDQILLRRHTITIESEGKSTFAKASFVAGNRTDISLDDPNFWQKAKKAEL  
 DIDALNGRNLLVIDTPRVKQTRLYSAVKEDELMFSDLESDSEEKCAKPRRPQDKSQGYARSECFRVE  
 KNLLVYGWGRWTDILSHGRYKRQLETDQVETICRTILVYCLNHYKGDENIKSFIWDLITPTADGQTRALV  
 NHSGLSAPVPRGRKGKVKQAQSTQPVVQDADWLASCNPDALFQEDSYKHLKHHCNKVLLRVRMLYYLRQ  
 EVIGDQADKILEGADSSEADVWIPEPFHAEVPADWWDKEADKSLLIGVFKHGYEYNSMRADPALCFLE  
 VGMPDAKAIAAEQRTDMLADGGDGGFDREDEDPEYKPTRTPFKDEIDEFANSPSEDKEESMEIHATGK  
 HSESNALGQLYWPNTSTLTTRLRRLITAYQRSYKRQMRQEALMKTDRRRRRRPREEVRALAEAREAIIS  
 EKRRQKWTREEADFYRVVSTFGVIFDPVKQQFDWNQFRAFARLDKKSDESLEKYFSCFVAMCRRVCRMPV  
 KPDDPEPDLSSIEPITEERASRTLYRIELLRKIREQVLHHPQLGERLKLCPSLDLPEWWECCGRHRRDL  
 LVGAAKHGVSRDYHILNDPELSFLDAHKNFAQNRGAGNTSSLNPLAVGFVQTPPVISSAHIQDERVLEQ  
 AEGKVEEPENPAAKEKCEGKEEEEEEDTSGGKESKQECEAEASSVKNELKGVVEGADTGSKSISEKGEED  
 EEEKLEDDDKSEESSQPEAGAVSRGNFDEESNASMSTARDETRDGFYMEDGDPSVAQLLHERTFAFSFW  
 PKDRVMINRLDNICEAVLKGKWPVNRQMFDFQGLIPGYPTTTVDSPLQKRSFAELSMVGQASISGSEDI  
 TTSPQLSKEDALNLSVPRQRRRRRRKIEIEAERAARRNLMEMVAQLRESQVVSENGQEKVVDLKASRE  
 ATSSTSNFSSLSSKFIILPNVSTPVSDAFKTMELLQAGLSRTPTRHLNGLSLVDGEPMPKRRRRGRKKNVE  
 GLDLLFMSHKRTSLSAEDAETKAFEDIEETPPTRNIPSPGQLDPDTRIPVINLEDGTRLVGEDAPKNKD  
 LVEWLKLPHTYTYDMPSYVKNADVLFSSFKPKQKRHRCRNPNKLDINTLTGEERVPVVKRNGKMGG  
 AMAPPMKDLPRWLEENPEFAVAPDWDIVKQSGFVPESMFDRLLTGPVVRGEGASRRRGRPKSEIARAAA  
 AAAAVASTSGINPLL VNSL FAGMDL TSLQNLQNLQSLQLAGLMGFPPGLATAATAGGDAKNPAAVLPLML  
 PGMAGLPNVFLGGLLNNPLSAATGNTTASSQGEPEDESTKGEKGNENEDENKDKSEKSTDAVSAADSA  
 NGSVGAATAPAGLPSNPLAFNPFLSTMAPGLFYPSMFLPPLGGLTLPGFALAGLQNAVGSSEEKAAD  
 KAEGGPFKDGETLEGSDAEESLDKTAESSLLEDEIAAQGEELDSLDDGGDEIENNENDE

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2228\\_b01.zip](https://cdn.origene.com/chromatograms/ja2228_b01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_017780

**ORF Size:** 8991 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](mailto: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).

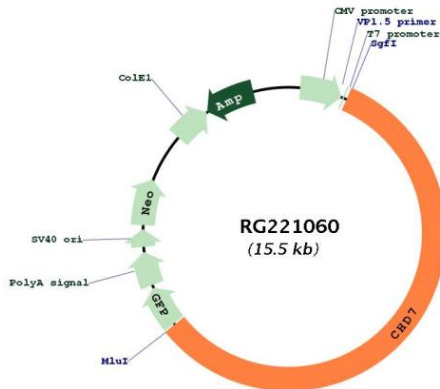
**Reconstitution Method:**

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.

RefSeq: [NM\\_017780.4](#)  
 RefSeq Size: 11589 bp  
 RefSeq ORF: 8994 bp  
 Locus ID: 55636  
 UniProt ID: [Q9P2D1](#)  
 Cytogenetics: 8q12.2

**Gene Summary:** This gene encodes a protein that contains several helicase family domains. Mutations in this gene have been found in some patients with the CHARGE syndrome. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2015]

### Product images:



Circular map for RG221060