

Product datasheet for **RG215110**

UBE3C (NM_014671) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBE3C (NM_014671) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UBE3C
Synonyms:	HECTH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215110 representing NM_014671 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCAGCTTCGAAGGCGACTTCAAGACGCGGCCAAGGTGTCCCTTGGCGGCGGAGCAGGAAGGAGG
AAAAGGCTTCTCTTTACATCGTACTCAGGAAGAAAGAAGAAAGAGAGAGGAAGAAAGGCGAAGGTTGAA
AAATGCAATAATTATCCAGTCATTTATTCGAGGCTATAGAGACAGAAAACAGCAATATCCATCCAAAGA
AGTGCATTTGATCGCTGTGCTACCTTGTACAGTCCGGGGCGCTTTCCATTGCTAATGGCCCAACC
TTACCTTTTGGTAAGGCAGCTTCTGTTTTTTACAAACAAAATGAAGACTCAAAACGTTTGATATGGCT
GTATCAGAACTTAATTAACACAGCTCTCTGTTTGTCAAGCAGTTGGATGGATCTGAGAGACTTACATGC
TTATTTTCAGATAAAAAGATTGATGAGCCTCTGTTGCAAGTTGCTGCAAAACTGTAATGATGACAGTTTGA
ATGTTGCACTTCCAATGAGAATGCTTGAAGTATTTTCGCTGAGAATACTTACTTGCCTGTTTTACAAGA
TGCTAGCTATGTGGTGTCAAGTATTGAACAAATTTTGCCTACATGATTCACAATGGGTATTATAGGTCT
CTATATTTGTTGATTAACAGCAAGCTTCCATCAAGTATTGAATATTCTGATTTATCTCGAGTTTCTATAG
CAAAAATTTTGTAGAGAATGTTCTAAAACCATTCACCTTTACTTACAACCTGTCGCGAAGGTGCGAG
GCAACAAGTTTTTACAGCCTTACAGAGGAGTTTCTGGCAGCACCTTTTACAGATCAGATTTTTTCATTTT
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AACACGGATGATCAGGGTCTATGGTACCGTTGCTTCAGGTGATATCCAGGGTTCTCCTATGTCTTTT



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GAAGATTCTAGTCGAATCATCCCCTCTTTTACCTTTTTAGCTCCTTGTTTAGTCATTCCTACTAATTTCCA
TACATGATAACGAATCTTCGGTGATCCCATAGAAGTTGTAGGTCAAAGACAATCATCAATGATGCCTTT
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GTCACCAGCGCAACCGGATTGCGTACATCCACTTGGTGGCAGACTACAGGCTGAACAGGCAGATCCGCC
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GCAAGAAATTCAGGTATTAATTTCTGGTGCACAAGTCCCATAGCCTAGAGGACCTAAAATCCTTTACA
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GGAGTTGTATCCCGCATTTTGTATTACAAACGGAGGCTCCGACCTTGGAGCGGCTCCCAACAGCCAGCACC
TGCATGAACCTGCTGAAGCTCCCGAGTTCTATGACGAGACACTTTTGGGAAGTAAACTTCTCTATGCGA
TTGAATGTCCGCTGGCTTTGAGCTGAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG215110 representing NM_014671
Red=Cloning site Green=Tags(s)

MFSFEGDFKTRPKVSLGGASRKEEKASLLHRTQEERRKREEERRRLKNAIIQSFIRGYRDRKQQYSIQR
SAFDRCATLSQSGGAFPIANGPNLTLLVRQLLFFYKQNEQSKRLIWLQNLIKHSSLFVKQLDGSERLTC
LFQIKRMLSLCCRLLQNCNDDSLNVALPMRMLEVFSSSENTYLPVLQDASYVVSVIEQILHYMIHNGYYRS
LYLLINSLKLPSSIEYSDLSRVPIAKILLEENVLKLPHFTYNSCPEGARQQVFATTEEFLAAPFTDQIFHF
IIPALADAQTVFPYEPFLNALLLIESRCSRKSGGAPWLFYFVLTVGENYLGALSEEGLLVYLRVLQTFLS
QLPVSPASASCHDSASDSEEESEADKPSPEDGRLSVSYITEECLKKLDTKQQTNTLLNLVWRDSASEE
VFTTMASVCHTMLMVQHRMMVPKVRLLYSLAFNARFLRHLWFLISSMSTRMITGSMVPLLQVISRGSFMSF
EDSSRIIPLFYLFSSLFSHSLISIHDFEFGDPIEVVQGRQSSMMPFTLEELIMLSRCLRDAACLGIKLA
YPETKPEVREEYITAFQSIGVTTSEMQQCIQMEQKRWIQLFKVITNLVKMLKSRDTRRNFPPNHWLSE
QEDIKADKVTQLYVPASRHVWFRMRIGPLQSTLDVGLSPPLSVSEERQLAVLTELFPVFPFEERVK
IFQRLIYADKQEVQDGPFLDGINVTIRRNYIYEDAYDKLSPENEPDLKKRIRVHLLNAHGLDEAGIDGG
GIFREFLNELLKSGFNPNQGFKTTNEGLLYPNPAAQMLVGDSFARHYYFLARMLGKALYENMLVELPFA
GFFLSKLLGTSADVDIHHLASLDPEVYKNLLFLKSYEDDVEELGLNFTVVNNDLGEAQVVELKFGGKDIP
VTSANRIAYIHLVADYRLNRQIRQHCLAFRQGLANVVSLEWLRMFDQEQEIQVLISGAQVPISELDLKSFT
NYSGGYSADHPVIKVFWRVVEGFDEEKRLLKFTVSCSRPPLLGFKELYPAFCIHNGGSDLERLPTAST
CMNLLKLPEFYDETLRSKLLYAIECAAGFELS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_014671

ORF Size: 3249 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_014671.1](#), [NP_055486.1](#)

RefSeq Size: 5160 bp

RefSeq ORF: 3252 bp

Locus ID: 9690

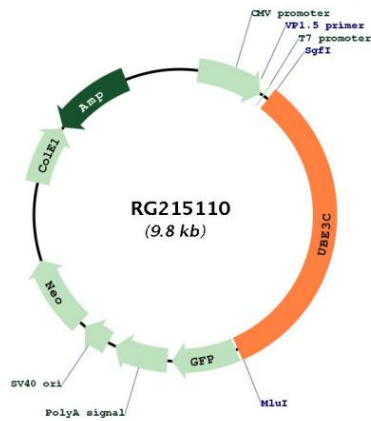
UniProt ID: [Q15386](#)

Cytogenetics: 7q36.3
Domains: IQ, HECT
Protein Families: Druggable Genome

Protein Pathways: Ubiquitin mediated proteolysis

Gene Summary: E3 ubiquitin-protein ligase that accepts ubiquitin from the E2 ubiquitin-conjugating enzyme UBE2D1 in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Can assemble unanchored poly-ubiquitin chains in either 'Lys-29'- or 'Lys-48'-linked polyubiquitin chains. Has preference for 'Lys-48' linkages. It can target itself for ubiquitination in vitro and may promote its own degradation in vivo.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG215110