

Product datasheet for **RC200038**

YTHDF2 (NM_016258) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	YTHDF2 (NM_016258) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	YTHDF2
Synonyms:	CAHL; DF2; HGRG8; NY-REN-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC200038 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCGGCCAGCAGCCTCTTGGAGCAGAGACAAAAGGTCAAGGAAACAAAGTACAAAATGGATCTGTAC
 ATCAAAAGGATGGATTAACGATGATGATTTTGAACCTTACTTGAGTCCACAGGCAAGGCCAATATGC
 ATATACTGCCATGTCAGATTCTACTTACCAGTTACTACAGTCCCTCCATTGGCTTCTCTATTCTTTG
 GGTGAAGCTGCTTGGTCTACGGGGGTGACACAGCCATGCCCTACTTAACTTCTTATGGACAGCTGAGCA
 ACGGAGAGCCCCACTTCTACCAGATGCAATGTTTGGCAACCAGGAGCCCTAGGTAGCACTCCATTTCT
 TGGTCAGCATGGTTTTAATTTCTTCCAGTGGGATTGACTTCTCAGCATGGGAAATAACAGTTCTCAG
 GGACAGTCTACTCAGAGCTCTGGATATAGTAGCAATTATGCTTATGCACCTAGCTCCTTAGTGGAGCCA
 TGATTGATGGACAGTCAGCTTTTCCAATGAGACCCTCAATAAGGCTCCTGGCATGAATACTATAGACCA
 AGGGATGGCAGCACTGAAGTTGGGTAGCACAGAAGTTGCAAGCAATGTTCCAAAAGTTGTAGGTTCTGCT
 GTTGGTAGCGGGTCCATTACTAGTAACATCGTGGCTTCCAATAGTTTGCCTCCAGCCACCATTGCTCCTC
 CAAAACAGCATCTTGGGCTGATATTGCTAGCAAGCTGCAAAACAGCAACCTAAACTGAAGACCAAGAA
 TGGCATTGCAGGGTCAAGTCTTCCGCCACCCCGATAAAGCATAACATGGATATTGGAACCTGGGATAAC
 AAGGGTCCCGTTGCAAAAGCCCCCTCACAGGCTTTGGTTCAGAATATAGGTGAGCAACCCAGGGGTCTC
 CTCAGCCTGTAGGTGAGCAGGCTAACAATAGCCACCAGTGGCTCAGGCATCAGTAGGGCAACAGACACA
 GCCATTGCCTCCACCTCCACCACAGCCTGCCAGCTTTCAGTCCAGCAACAGGCAGCTCAGCCAACCCGC
 TGGGTAGCACCTCGGAACCGTGGCAGTGGGTCGGTCAATATGGGGTGGATGGTAATGGAGTAGGACAGT
 CTCAGGCTGGTCTGGATCTACTCTTCCAGAACCCACCAGTGTGGAGAAGCTTCGGTCCATTAATAA
 CTATAACCCCAAAGATTTTGACTGGAATCTGAAACATGGCCGGGTTTTTCATCATTAAAGAGCTACTGAG
 GACGATATTCACCGTTCATTAAGTATAATATTTGGTGCAGCACAGAGCATGGTAAACAAGAGACTGGATG
 CTGCTTATCGTTCATGAACGGGAAAGGCCCGTTTACTTACTTTTTCAGTGTCAACGGCAGTGGACACTT
 CTGTGGCGTGGCAGAAATGAAATCTGCTGTGGACTACAACACATGTGCAGGTGTGTGGTCCAGGACAAA
 TGGAAAGGGTCGTTTTGATGTGAGGTGGATTTTGTGAAGGACGTTCCCAATAGCCAACCTGCGACACATTC
 GCCTAGAGAACAACGAGAATAAACCAGTGACCAACTCTAGGGACACTCAGGAAGTGCCTCTGAAAAAGGC
 TAAGCAGGTGTTGAAAATATAGCCAGCTACAAGCACACCACTTCCATTTTTGATGACTTCTCACACTAT
 GAGAAACGCCAAGAGGAAGAAGAAAGTGTAAAAAGGAACGTCAAGGTCGTGGGAAA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200038 protein sequence
 Red=Cloning site Green=Tags(s)

MSASSLLEQRPKGQGNKVNQNGSVHQKDGLNDDDFEPYLSQPARNNAYTAMSDSYLPSYSPSIGFSYSL
 GEAAWSTGGDTAMPYLTSYGQLSNGEPHFLPDAMFGQPGALGSTPFLGQHGFNFFPSGIDFSAWGNSSQ
 GQSTQSSGYSSNYAYAPSSLGGAMIDGQSAFANETLNKAPGMNTIDQMAALKLGSTEVASNVKVVGSA
 VGSITSNIVASNSLPPATIAPPKASWADIASKPAKQPKLTKNGIAGSSLPPPIKHNMIDIGTWDN
 KGPVAKAPSQALVQNIQPTQGSPPVQVQANNSPPVAQASVQQTQPLPPPPQPAQLSVQQAAQPTR
 WVAPNRGSGFGHNGVDGNGVQSQAGSGSTPSEPHVLEKLRINNYNPKDFDWNLKHGRVFIKSYSE
 DDIHRSIKYNIWCSTEHGNKRLDAAYRSMNGKGPVYLLFSVNGSGHF CGVAEMKSAVDYNTCAGVWSQDK
 WKGRFDVRWIFVKDVPNSQLRHIRLENNENKPVNSRDTQEVPLEKAKQVLKIIASYKHHTTSIFDDFSHY
 EKRQEEEEVKKERQGRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6400_b02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_016258

ORF Size: 1737 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016258.3](#)

RefSeq Size: 3073 bp

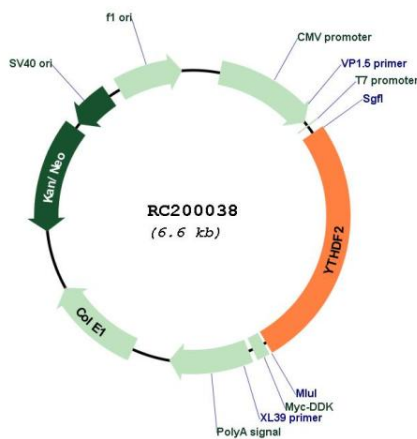
RefSeq ORF: 1740 bp

Locus ID: 51441

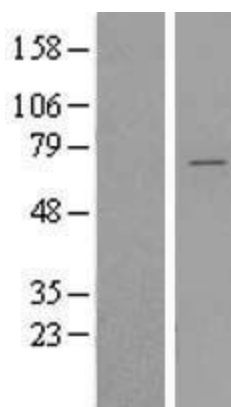
UniProt ID: Q9Y5A9
Cytogenetics: 1p35.3
Domains: YTH
MW: 62.3 kDa

Gene Summary: This gene encodes a member of the YTH (YT521-B homology) superfamily containing YTH domain. The YTH domain is typical for the eukaryotes and is particularly abundant in plants. The YTH domain is usually located in the middle of the protein sequence and may function in binding to RNA. In addition to a YTH domain, this protein has a proline rich region which may be involved in signal transduction. An Alu-rich domain has been identified in one of the introns of this gene, which is thought to be associated with human longevity. In addition, reciprocal translocations between this gene and the Runx1 (AML1) gene on chromosome 21 has been observed in patients with acute myeloid leukemia. This gene was initially mapped to chromosome 14, which was later turned out to be a pseudogene. Alternatively spliced transcript variants encoding different isoforms have been identified in this gene. [provided by RefSeq, Oct 2012]

Product images:



Circular map for RC200038



Western blot validation of overexpression lysate (Cat# [LY414098]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200038 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).