

Product datasheet for **SC328944**

YTHDF2 (NM_001173128) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	YTHDF2 (NM_001173128) Human Untagged Clone
Tag:	Tag Free
Symbol:	YTHDF2
Synonyms:	CAHL; DF2; HGRG8; NY-REN-2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001173128, the custom clone sequence may differ by one or more nucleotides

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ATGTCGGCCAGCAGCCTCTTGGAGCAGAGACCAAAAGGTCAAGGAAACAAAGTACAAAAT
GGATCTGTACATCAAAGGATGGATTAACGATGATGATTTTGAACCTTACTTGAGTCCA
CAGGCAAGGCCAATAATGCATATACTGCCATGTCAGATTCCTACTTACCCAGTTACTAC
AGTCCCTCCATTGGCTTCTCCTATTCTTTGGGTGAAGCTGCTTGGTCTACGGGGGTGAC
ACAGCCATGCCCTACTTAACTTCTTATGGACAGCTGAGCAACGGAGAGCCCCACTTCCTA
CCAGATGCAATGTTTGGGCAACCAGGAGCCCTAGGTAGCACTCCATTTCTTGGTCAGCAT
GGTTTTAATTTCTTTCCAGTGGGATTGACTTCTCAGCATGGGGAATAACAGTTCTCAG
GGACAGTCTACTCAGAGCTCTGGATATAGTAGCAATTATGCTTATGCACCTAGCTCCTTA
GGTGGAGCCATGATTGATGGACAGTCAGCTTTTGCCAATGAGACCCTCAATAAGGCTCCT
GGCATGAATACTATAGACCAAGGGATGGCAGCACTGAAGTTGGTAGCACAGAAGTTGCA
AGCAATGTTCCAAAAGTTGTAGTTCTGCTGTTGGTAGCGGGTCCATTACTAGTAACATC
GTGGCTTCCAATAGTTTGCCTCCAGCCACCATTGCTCCTCCAAAACCAGCATCTTGGGCT
GATATTGTAGCAAGCCTGCAAAACAGCAACCTAAACTGAAGACCAAGAATGGCATTGCA
GGGTCAAGTCTTCCGCCACCCCGATAAAGCATAACATGGATATTGGAACCTGGGATAAC
AAGGGTCCCGTTGCAAAAGCCCCCTCACAGGCTTTGGTTCAGAATATAGGTCAGCCAACC
CAGGGGTCTCCTCAGCCTGTAGGTGAGCAGGCTAACAATAGCCCACCAAGTGGCTCAGGCA
TCAGTAGGGCAACAGACACAGCCATTGCCTCCACCTCCACCACAGCCTGCCCAGCTTTCA
GTCCAGCAACAGGCAGCTCAGCAACCCGCTGGGTAGCACCTCGGAACCGTGGCAGTGGG
TTCGGTCATAATGGGGTGGATGGTAATGGAGTAGGACAGTCTCAGGCTGGTCTGGATCT
ACTCCTTCAGAACCCACCCAGTGTGGAGAAGCTTCGGTCCATTAATAACTATAACCCC
AAAGATTTTGACTGGAATCTGAAACATGGCCGGGTTTTTCATCATTAAAGAGCTACTGTAG
GACGATATTCACCGTTCATTAAGTATAATATTTGGTGCAGCACAGAGCATGGTAACAAG
AGACTGGATGCTGCTTATCGTTCATGAACGGGAAGGCCCGTTTACTTACTTTTCAGT
GTCAACGGCAGTGGACACTTCTGTGGCGTGGCAGAAATGAAATCTGCTGTGGACTACAAC
ACATGTGCAGGTGTGTGGTCCCAGGACAAATGGAAGGGTCTTTTTGATGTCAGGTGGATT
TTTGTGAAGGACGTTCCCAATAGCCAATGCGACACATTCGCCTAGAGAACAACGAGAAT
AAACCAGTGACCAACTCTAGGGACTCAGGAAGTGCCTCTGGAAAAGGCTAAGCAGGTG
TTGAAAATATAGCCAGCTACAAGCACACCACTTCCATTTTTGATGACTTCTCACACTAT
GAGAAACGCCAAGAGGAAGAAGAAAGTGTAAAAAGGAACGTCAAGGTCGTGGGAATAA

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- Restriction Sites:** Please inquire
- ACCN:** NM_001173128
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001173128.1](#), [NP_001166599.1](#)

RefSeq Size: 2830 bp

RefSeq ORF: 1740 bp

Locus ID: 51441

UniProt ID: [Q9Y5A9](#)

Cytogenetics: 1p35.3

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]

Transcript Variant: This variant (2) has a split 5' UTR exon, as compared to variant 1. Both variants 1 and 2 encode the same isoform (1).