

## Product datasheet for **RR208974**

### **Ythdf2 (NM\_001047099) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ythdf2 (NM_001047099) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ythdf2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR208974 representing NM\_001047099  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCGGCCAGCAGCCTCTTGGAGCAGAGACAAAAGGTCAAGGAAACAAAGTACAAAATGGTTCTGTGC  
 ATCAAAAGGATGGTCTAAATGATGATGATTTTTCGAACCTTACTTGAGCCACAGGCCAAGGCCGAATATGC  
 ATATACTGCCATGTCAGACTCCTACTTACCAGTTACTACAGCCCTCTATTGGCTTTTCTATTCTTTG  
 GGTGAAGCTGCTTGGTCTACTGGAGGTGACACAGCCATGCCCTATCTAACTTCTTATGGACAACAGCA  
 ACGGAGAGCCCCACTTTCTACCAGATGCAATGTTTGGCAACCAGGAGCCCTAGGTAGCACTCCATTTCT  
 TGGTCAGCATGGTTTTAATTTTTTCCCAGTGGGATTGACTTCTCAGCATGGGAAATAACAGTTCTCAG  
 GGACAGTCTACTCAAAGCTCTGGATATAGTAGCAATTATGCTTATGCACCCAGCTCCTTAGTGGAGCCA  
 TGATTGATGGACAGTCAGCTTTTGCCAATGAGACCCTCAATAAAGCTCCTGGCATGAATACTATAGACCA  
 AGGGATGGCAGCACTGAAACTAGGTAGCACAGAAGTTGCGAGCAGTGTTCCCAAAGTTGAGGCTCTGCT  
 GTTGGTAGTGGGTCCATCACTAGTAACATTGTGGCTTCTAGCAGTTTGCCTCCAGCTACTATTGCTCCTC  
 CAAAACAGCATCTTGGGCTGATATTGCTAGCAAACCTGCAAAACAACAACCTAAGCTGAAGACCAAGAA  
 TGGCATTGCGAGTCAAGTCTTCCACCGCCCCAATAAAGCATAACATGGATATTGGAACCTGGGATAAC  
 AAGGGTCTGTGGCAAAAGCCCCCTCACAGGCTTTGGTTCAAAATATAGGTGAGCCAACCCAGGGATCTC  
 CTCAGCCTGTAGGACAGCAGGCCAATAATAGCCACCAGTACTCAGACATCAGTAGGGCAACAGACACA  
 GCCATTGCCTCCACCTCCACCACAGCTGCTCAGCTCTCAGTCCAGCAGCAGGCAGCTCAGCCAACCTCGC  
 TGGGTAGCACCTCGGAACCGTGGCAGTGGTTCGGTCATAATGGGGTGGATGGTAATGGAGTAGGACAGT  
 CTCAGGCGGGTCTGGATCTACTCTTCCAGAGCCTCACCCAGTGTGGAGAAACTTCGGTCCATTAATAA  
 CTATAACCTAAAGATTCGACTGGAATCTGAAACACGGCCGGTTTTTCATCATTAAAGAGCTACTCTGAG  
 GACGATATCCACCGTTCCATTAAGTATAATATCTGGTGCAGCACAGAGCATGGTAACAAGAGACTGGATG  
 CCGCCTATCGTTCATGAACGGGAAGGGTCCCCTGACTTACTTTTTCAGTGTCAACGGCAGTGGACACTT  
 CTGTGGAGTTGCAGAGATGAAATCTGCTGTGGACTACAACACATGTGCAGGTGTGTGGTCCAGGACAAA  
 TGGGAAGGGTCTTTTTCAGTGTGATGGATTTTGTGAAGGACGTTCCCAATAGCCAACCTGCGACACATTC  
 GTCTAGAGAACAACGAGAATAAACCAGTGACCAACTCTAGGGACACTCAGGAAGTGCCTCTGGAAAAAGC  
 TAAGCAGGTGTTGAAAATCATAGCCAGCTACAAGCACACCACTTCCATTTTGTGACTTCTCACACTAT  
 GAGAAACGCCAAGAGGAAGAAGAAAGTTTAAAAAGGAACGTCAAGGCCGTGGGAAATAAAAAGCGGTTCT  
 GCATAGACTGCAGCAACGGTTGCGTCTGCTTATCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR208974 representing NM\_001047099  
 Red=Cloning site Green=Tags(s)

MSASSLLEQRPKGQGNKVNQNSVHQKDGLNDDDFEPYLSQARPNNAYTAMSDSYLPSYSPSIGFSYSL  
 GEAAWSTGGDTAMPYLTSYGQLSNGEPHFLPDAMFGQPGALGSTPFLGQHGFNFFPSGIDFSAWGNSSQ  
 GQSTQSSGYSSNYAYAPSSLGGAMIDGQSAFANETLNKAPGMNTIDQGMALKLGSTEVASSVPKVVGSA  
 VGSGSITSNIVASSSLPPATIAPPKPAWADIASKPAKQPKLTKNGIAGSSLPPPIKHNMDIGTWDN  
 KGPVAKAPSQALVQNIQPTQGSPQPVGQQANNSPPVTQTSVGGQTQPLPPPPPPQPAQLSVQQAAQPTR  
 WVAPRNRGSGFGHNGVDGNGVQSQAGSGSTPSEPHVLEKLRSINNYNPKDFDWNLKHGRVFIKSYSE  
 DDIHRSIKYNIWCSIEHGNKRLDAAYSRMNGKGPVYLLFSVNGSGHF CGVAEMKSAVDYNTCAGVWSQDK  
 WKGRFDVRWIFVKDVPNSQLRHIRLENNENKPVNSRDTQEVPLEKAKQVLKIIASYKHSTSIFFDDFSHY  
 EKRQEEEEELKRNKAVGNKRRFCIDCSNGCVCLS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001047099

**ORF Size:** 1785 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\\_001047099.1](#), [NP\\_001040564.1](#)

**RefSeq Size:** 2776 bp

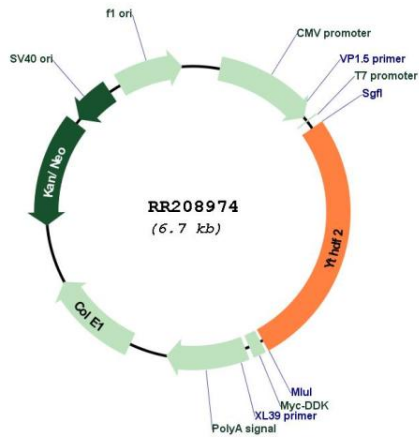
**RefSeq ORF:** 1788 bp

**Locus ID:** 313053

**Cytogenetics:** 5q36

**MW:** 64 kDa

Product images:



Circular map for RR208974