

Product datasheet for **MC202613**

Ywhaz (NM_011740) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ywhaz (NM_011740) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ywhaz
Synonyms:	14-3-3zeta; 1110013I11Rik; AI596267; AL022924; AU020854
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC050891 sequence for NM_011740
 GGTGTGGACGCCGAGCTCGCGACTGAAAAGGCAGGGCGTCATTCAGCCTCGCGCTTTTCCCAGCCTAAA
 AGGTCTAAGGCCGCTTCTGCAGCCAGAAGCGTTTGACGTCATCGTGCCTGTGGTGCCCTGCTGCCGGG
 GCTAGTGATTGGAGGAAACCCCGTGTCTGCGGAGCGGCTGTAGCCTGTGAGCAGCCAGATCAGGGACAGA
 GTCTCAGCCTCGCCGCCACCGTGTCTGCCGCCGCCAGAGACCGCCGAGCCGCTCCGTGTGCCGCC
 ACCCACTCCGGACACAGAATATCCAGTTATGGATAAAAAATGAGCTGGTGCAGAAGGCCAAGCTGGCCGAG
 CAGGCAGAGCGATATGATGACATGGCAGCCTGCATGAAGTCTGTCACTGAGCAGGGAGCTGAGCTGTCGA
 ATGAGGAGAGAAAACCTTCTCTCTGTTGCTTATAAAAAACGTTGTAGGAGCCCGTAGGTCATCGTGGAGGGT
 CGTCTCAAGTATTGAGCAGAAGACGGAAGTGTGAGAAAAAGCAGCAGATGGCTCGAGAATACAGAGAG
 AAGATCGAGACGGAGCTGCGTGACATCTGCAACGATGACTGTCTCTTTTGGAAAAGTTCTTGATCCCCA
 ATGCTTCGCAACCAGAAAAGCAAAGTCTTCTATTTGAAAATGAAGGGTGACTACTACCGTTACTTGGCCGA
 GGTGCTGCTGGTGTGACAAGAAAGGAATTGTGGACCAGTACAGCAAGCATACCAAGAAGCATTGAA
 ATCAGCAAAAAGGAGATGCAGCCGACACACCCCATCAGACTGGGTCTGGCCCTCAACTTCTGTGTTCT
 ATTACGAGATCCTGAACCTCCCAGAGAAAAGCCTGCTCTTGTCAAAAACAGCTTTTCGATGAAGCCATTGC
 TGAACCTTGATACATTAAGTGAAGAGTCGTACAAGACAGCAGCCTAATAATGCAGTTACTGAGAGACAAC
 TTAACATTGTGGACATCGGATACCAAGGAGATGAAGCAGAAGCAGGAGAAGGAGGGGAAAAATTAACCGG
 CCTTCCAACCTTTGTCTGCCTCATTCTAAAATTTACACAGTAGACCATTTGTCATCCATGCTGTCCCACA
 GATAGTTTTTTTTGTTTACGATTTATGACAGTTTTATGTTACTTCTATTTGAATTTCTATATTTCCCATGT
 GGTTTTTATGTTTAAATATTAGGGGAGTAGAGCCAGTTAACTTTAGGGAGTTACTCATTTTCATCTTGAG
 GTGGCCAAATAGGGATGTGGAATTTTTACATGAGTTACACATGTTTGGCATAGTACTTTTGGTACATTGT
 GGCTTCAGAAAGGCCAGTGTTAAAACGCTTCCATGTCTAAGCAAAGAAAAGTGCCTACATATTGGTGTG
 TGCTGGCGGGGAATAATCAGGATAATGGGTTCCAGTCATGAGTGTAGTCTTTGTGGTACTGTAAGGCC
 GGAGCATTGTGAGGCTGTGACACAAACACCCGTGGATGCACGCTAGGATCGTGTGTGTGCTGTCAC
 ACTCTTGACCACAGCTCCAGAAGTTGTCTCTAGACAAAAGTCGTGACCCAATTTACTCTGGTAAGGGCAGA
 AACGGTTCACATTCCATTATTTGTAAGTTACCTGCTGTTTGTCTTCTATTATTTTGTACACATTTTAT
 TTGATTTTAAATGTTTTAGGCAATCTAAGAACAATGTAAAAGTAAAGATGCAGTAAAAACGAGTTGCTT
 GGTGTGCCGGCTCCATACGTATCAAGCACAGCGGTAACAAAATCCCATGTATTTAACTTTTTCTTTCT
 TTTTTTTTTTTTTTAAAGTTTTTGTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTG
 ATACTTGCCTAACATGCATGTGCTGTAAAAATAGTTAACAGGGAAATAACTTGAGATGACGGCTAGCTTT
 GTTTTAAATGTCTTAAGAAATTTTCATGAACAATCCAAGCATAATTGTTAAGAACACATGTATTAAGTTC
 ATGTAAGTGAATAAAAGTTTTATGAATGGACTTTTCACTACTTTTCTCTACAGCTTTTCATGTAATTT
 AGTCTTTTGGTTTTGAGACTTCTCAAAGGAAATTTGTCTCCTTATTCCTCTTGCGAGCTAATGGGCTTT
 TACCAATTTTGAATGCAGAGTTTATCATAAAAAATAAACCCTAATGTAGCTTCCATCCTCAGCCAC
 CTCCCACATTTTCCCCTTACTCCTCAACAATTTGAAGTGGACTTTTATGGGGTGGGGGGTATTGGCAAAA
 GGTAATGTGTTCCATTTAATTTTGGTCTATGGAGTTTTCTAACTTAGGAAGCCACAATGTTCTTGGCC
 CATGTGACTGACACTGGGCAGCATTAACTGTTAAGTCTGTGCTTCCAAGTCGCTGTTGGTTTTAAGAA
 TTCCTGATGCTCTTACAGTCTGCCTGGGATTCTATTCTCTATTTCCATGTTGGGCACAGGCTCACTTCC
 CTTTTACTGTCTGTACCAACCATTCCAACCTGGTGGCCATGTATTTGGGAAAAGGCCCGCATGATCTT
 TCTGGCTCCACTCAGTGTCTAAGATACCCGCTTCCCCTGCTTGCCTCCCACAGCCTCCCCTCATCCTCTC
 TACAGCCCAGCTCGCCTCAGTTGAGCTTGTGTTTATCTCCTGGAAGTCTGCCCATAAATGGTCTGTAC
 CGTCTCCCTTTAAATCCTTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCACATAATGATGGGGCTAAG
 TCACACCCAAAGCTCACACCCTACCGAGTATTTCTCAGTACTTTACAGAAAAACCAAACAAAAATGCC
 ATTTTACAAGAGGTGATTTTTTTTTCTTTTGAATGTAAGCTCGTCTAGAGCAGGGACAATGTTTTCTG
 TATGTTCTATTGTGCTAGTACACTGTAATGCTCAATAAATATTGATGATGGGAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI
ACCN: NM_011740
Insert Size: 738 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 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](#)

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: [BC050891](#), [AAH50891](#)

RefSeq Size: 3019 bp

RefSeq ORF: 738 bp

Locus ID: 22631

UniProt ID: [P63101](#)

Cytogenetics: 15 B3.1

Gene Summary: Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner. Induces ARHGEF7 activity on RAC1 as well as lamellipodia and membrane ruffle formation (By similarity). In neurons, regulates spine maturation through the modulation of ARHGEF7 activity (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes the longer isoform (1). Variants 1-3 and 5 encode the same isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.