**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for MC226391

## Ywhaz (NM_001253807) Mouse Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Ywhaz (NM_001253807) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Ywhaz |
| **Synonyms:** | 14-3-3zeta; 1110013I11Rik; AI596267; AL022924; AU020854 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Fully Sequenced ORF:** | >MC226391 representing NM_001253807<br>Red=Cloning site Blue=ORF Orange=Stop codon<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGGCAGCCTGCATGAAGTCTGTCACTGAGCAGGGAGCTGAGCTGTCGAATGAGGAGAGAAACCTTCTCT<br>CTGTTGCTTATAAAAACGTTGTAGGAGCCCGTAGGTCATCGTGGAGGGTCGTCTCAAGTATTGAGCAGAA<br>GACGGAAGGTGCTGAGAAAAAGCAGCAGATGGCTCGAGAATACAGAGAGAAGATCGAGACGGAGCTGCGT<br>GACATCTGCAACGATGTACTGTCTCTTTTGGAAAAGTTCTTGATCCCCAATGCTTCGCAACCAGAAAGCA<br>AAGTCTTCTATTTGAAAATGAAGGGTGACTACTACCGTTACTTGGCCGAGGTTGCTGCTGGTGATGACAA<br>GAAAGGAATTGTGGACCAGTCACAGCAAGCATACCAAGAAGCATTTGAAATCAGCAAAAAGGAGATGCAG<br>CCGACACACCCCATCAGACTGGGTCTGGCCCTCAACTTCTCTGTGTTCTATTACGAGATCCTGAACTCCC<br>CAGAGAAAGCCTGCTCTCTTGCAAAAACAGCTTTCGATGAAGCCATTGCTGAACTTGATACATTAAGTGA<br>AGAGTCGTACAAAGACAGCACGCTAATAATGCAGTTACTGAGAGACAACTTAACATTGTGGACATCGGAT<br>ACCCAAGGAGATGAAGCAGAAGCAGGAGAAGGAGGGGAAAATTAA<br><br>ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT<br>ACAAGGATGACGACGATAAGGTTTAA |
| **Restriction Sites:** | SgfI-MluI |
| **ACCN:** | NM_001253807 |
| **Insert Size:** | 675 bp |

View online »

| | |
|---|---|
| **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:** | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001253807.1, NP_001240736.1 |
| **RefSeq Size:** | 3160 bp |
| **RefSeq ORF:** | 675 bp |
| **Locus ID:** | 22631 |
| **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 (4) differs in the 5' UTR and lacks a portion of the 5' coding region, which results in a downstream AUG start codon, compared to variant 1. The encoded isoform (2) is shorter at the N-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. |