

Product datasheet for **MG203074**

Ywhaz (NM_011740) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Ywhaz (NM_011740) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Ywhaz |
| Synonyms: | 14-3-3zeta; 1110013I11Rik; AI596267; AL022924; AU020854 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG203074 representing NM_011740 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATAAAATGAGCTGGTGCAGAAGGCCAAGCTGGCCGAGCAGGCAGAGCGATATGATGACATGGCAG
CCTGCATGAAGTCTGTCCTGAGCAGGGAGCTGAGCTGTCGAATGAGGAGAGAAACCTTCTCTGTTGC
TTATAAAACGTTGTAGGAGCCCGTAGGTCATCGTGGAGGGTCGTCTCAAGTATTGAGCAGAAGACGGAA
GGTGTGAGAAAAGCAGCAGATGGCTCGAGAATACAGAGAGAAGATCGAGACGGAGCTGCGTGACATCT
GCAACGATGTACTGTCTCTTTTGGAAAAGTTCTTGATCCCAATGCTTCGCAACCAGAAAGCAAAGTCTT
CTATTTGAAAATGAAGGGTGACTACTACGTTACTTGGCCGAGGTTGCTGCTGGTGATGACAAGAAAGGA
ATTGTGGACCAAGTCACAGCAAGCATACCAAGAAGCATTGAAATCAGCAAAAAGGAGATGCAAGCCGACAC
ACCCCATCAGACTGGGTCTGGCCCTCAACTTCTCTGTGTTCTATTACGAGATCCTGAACTCCCGAGAGAA
AGCCTGCTCTCTTGCAAAAACAGCTTTCGATGAAGCCATTGCTGAACTTGATACATTAAGTGAAGAGTCG
TACAAAGACAGCAGCTAATAATGCAGTTACTGAGAGACAACCTAACATTGTGGACATCGGATACCCAAG
GAGATGAAGCAGAAGCAGGAGAAGGAGGGGAAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203074 representing NM_011740
 Red=Cloning site Green=Tags(s)

```
MDKNELVQKAKLAEQAERYDDMAACMKSVTEQGAEL SNEERNLLSVAYKNVVGARRSSWRVVSSIEQKTE
GAEKKQQMAREYREKIE TELRDICNDVLSLLEKFLIPNASQPE SKVFY LKMKGDYRYLA EVAAGDDKKG
IVDQSQQAYQEAFEISKEMQPTHP IRLGLALNFSVFYIEILNSPEKACSLAKTAFDEAIAELDTLSEES
YKDSTLIMQLLRDNLTLWTSDTQGDEAEAGEGGEN
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011740

ORF Size: 735 bp

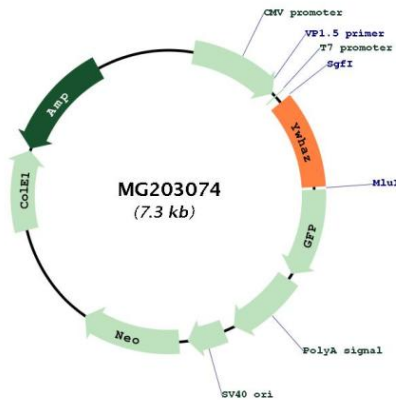
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

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_011740.3](#)
- 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]

Product images:



Circular map for MG203074