

Product datasheet for **MR228746**

Ywhaz (NM_001253805) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ywhaz (NM_001253805) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)
ORF Nucleotide Sequence:	>MR228746 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATAAAAAATGAGCTGGTGCAGAAGGCCAAGCTGGCCGAGCAGGCAGAGCGATATGATGACATGGCAG
CCTGCATGAAGTCTGTCCTGAGCAGGGAGCTGAGCTGTCGAATGAGGAGAGAAACCTTCTCTGTTGC
TTATAAAAACGTTGTAGGAGCCCGTAGGTCATCGTGGAGGGTCGTCTCAAGTATTGAGCAGAAGACGGAA
GGTCTGAGAAAAAGCAGCAGATGGCTCGAGAATACAGAGAGAAGATCGAGACGGAGCTGCGTGACATCT
GCAACGATGTACTGTCTCTTTTGGAAAAGTTCTTGATCCCAATGCTTCGCAACCAGAAAGCAAAGTCTT
CTATTTGAAAATGAAGGGTGACTACTACGTTACTTGGCCGAGGTTGCTGCTGGTGATGACAAGAAAGGA
ATTGTGGACCAAGTCACAGCAAGCATACCAAGAAGCATTGAAATCAGCAAAAAGGAGATGCAAGCCGACAC
ACCCCATCAGACTGGGTCTGGCCCTCAACTTCTGTGTTCTATTACGAGATCCTGAACTCCCCAGAGAA
AGCCTGCTCTCTTGCAAAAACAGCTTTCGATGAAGCCATTGCTGAACTTGATACATTAAGTGAAGAGTCG
TACAAAGACAGCACGCTAATAATGCAGTTACTGAGAGACAACCTAACATTGTGGACATCGGATACCCAAG
GAGATGAAGCAGAAGCAGGAGAAGGAGGGGAAAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR228746 protein sequence
Red=Cloning site Green=Tags(s)

MDKNELVQKAKLAEQAERYDDMAACMKSVTEQGAEL SNEERNLLSVAYKNVVGARRSSWRVVSSIEQKTE
 GAEKKQQMAREYREKIETELRDICNDVLSLLEKFLIPNASQPEKVFYLMKMGDYRYLAEVAAGDDKKG
 IVDQSQQAYQEAFEISKEMQPTHPIRLGLALNFSVFYYEILNSPEKACSLAKTAFDEAIAELDTLSEES
 YKDSLIMQLLRDNLTLWTSDTQGDEAEAGEGGEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001253805

ORF Size: 738 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_001253805.1](#), [NP_001240734.1](#)

RefSeq Size: 3604 bp

RefSeq ORF: 738 bp

Locus ID: 22631

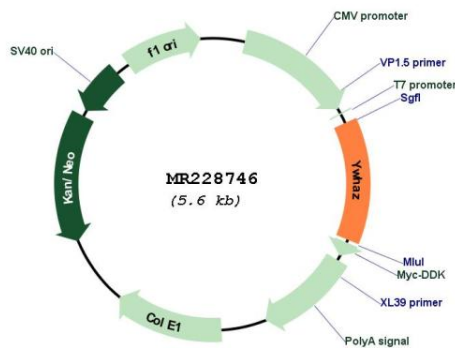
UniProt ID: [P63101](#)

Cytogenetics: 15 B3.1

MW: 27.8 kDa

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 MR228746