

Product datasheet for **MR224688**

Ywhab (NM_018753) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ywhab (NM_018753) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ywhab
Synonyms: 14-3-3b; 1300003C17Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR224688 representing NM_018753
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCATGGATAAGAGTGAGCTGGTACAGAAAGCCAACTGGCTGAGCAGGCTGAGCGCTATGATGACA
 TGGCTGCAGCTATGAAGGCCGTAAACAGAGCAGGGACACGAACTCTCCAATGAAGAGAGGAATCTACTCTC
 TGTTGCCCTACAAGAACGTGGTAGGTGCCCGCCGCTCTTCTGGCGTGTCTCCAGCATCGAACAGAAA
 ACCGAGAGGAATGAGAAGAAGCAGCAGATGGGCAAAGAGTACCGTGAGAAGATCGAGGCGGAGCTGCAGG
 ACATCTGCAACGATGTGCTGGAGCTGTTGGACAAATATCTCATTCTCAATGCCACCCAGGCAGAAAGCAA
 AGTGTCTACTTAAAAATGAAAGGAGACTACTTTAGGTATCTTTCTGAAGTTGCATCCGGAGAAAATAAA
 CAAACCACGGTGTCCAACCTCCAGCAGGCTTACCAAGAAGCATTGAAATCAGCAAGAAAGAAATGCAGC
 CTACACACCCGATTGCGCTCGGCCTGGCGCTGAATTTCTCAGTCTTTACTATGAGATTCTAAACTCTCC
 TGAAAAGGCCCTGCAGCCTGGCCAAAACGGCATTGATGAGGCGATTGCTGAGTTGGACACCTGAATGAA
 GAGTCTTACAAAGACAGCACCTGATCATGCAGCTGCTCAGGGACAATCTCACCTGTGGACGTCAGAAA
 ACCAGGGGGATGAAGGAGATGCTGGAGAGGGAGAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224688 representing NM_018753
Red=Cloning site Green=Tags(s)

MTMDKSELVQKAKLAEQAERYDDMAAMKAVTEQGHLSNEERNLLSVAYKNVVGARRSSWRVISSIEQK
 TERNEKKQQMGKEYREKIEAELQDICNDVLELLDKYLILNATQAESKVFYLMKMGDYFRYLSEVASGENK
 QTTVSNSQQAYQEAFEISKKEMQPTHPIRLGLALNFSVFYYEILNSPEKACSLAKTAFDEAIAELDTLNE
 ESYKDSTLIMQLLRDNLTLWTSENQGDGDEGEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9036_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_018753

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_018753.6](#), [NP_061223.2](#)

RefSeq Size: 2775 bp

RefSeq ORF: 741 bp

Locus ID: 54401

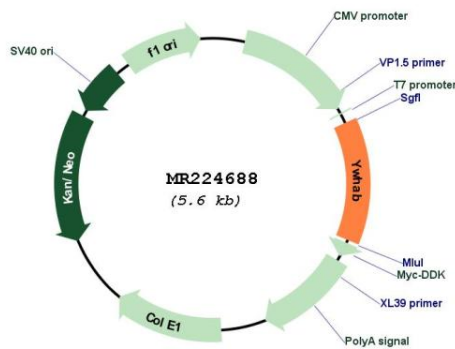
UniProt ID: [Q9CQV8](#)

Cytogenetics: 2 H3

MW: 28.5 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. Negative regulator of osteogenesis. Blocks the nuclear translocation of the phosphorylated form (by AKT1) of SRPK2 and antagonizes its stimulatory effect on cyclin D1 expression resulting in blockage of neuronal apoptosis elicited by SRPK2. Negative regulator of signaling cascades that mediate activation of MAP kinases via AKAP13. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224688