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Product datasheet for RC200402

14-3-3 beta (YWHAB) (NM_139323) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	14-3-3 beta (YWHAB) (NM_139323) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	14-3-3 beta
Synonyms:	GW128; HEL-S-1; HS1; KCIP-1; YWHAA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC200402 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAATGGATAAAAGTGAGCTGGTACAGAAAGCCAAACTCGCTGAGCAGGCTGAGCGATATGATGATA
TGGCTGCAGCCATGAAGGCAGTCACAGAACAGGGGCATGAACTCTCCAACGAAGAGAGAAATCTGCTCTC
TGTTGCCTACAAGAATGTGGTAGGCGCCCGCCGCTCTTCCTGGCGTGTCATCTCCAGCATTGAGCAGAAA
ACAGAGAGGAATGAGAAGAAGCAGCAGATGGGCAAAGAGTACCGTGAGAAGATAGAGGCAGAACTGCAGG
ACATCTGCAATGATGTTCTGGAGCTGTTGGACAAATATCTTATTCCCAATGCTACACAACCAGAAAGTAA
GGTGTTCTACTTGAAAATGAAAGGAGATTATTTTAGGTATCTTTCTGAAGTGGCATCTGGAGACAACAAA
CAAACCACTGTGTCGAACTCCCAGCAGGCTTACCAGGAAGCATTTGAAATTAGTAAGAAAGAAATGCAGC
CTACACACCCAATTCGTCTTGGTCTGGCACTAAATTTCTCAGTCTTTTACTATGAGATTCTAAACTCTCC
TGAAAAGGCCTGTAGCCTGGCAAAAACGGCATTTGATGAAGCAATTGCTGAATTGGATACGCTGAATGAA
GAGTCTTATAAAGACAGCACTCTGATCATGCAGTTACTTAGGGACAATCTCACTCTGTGGACATCGGAAA
ACCAGGGAGACGAAGGAGACGCTGGGGAGGGAGAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC200402 protein sequence
Red=Cloning site Green=Tags(s)

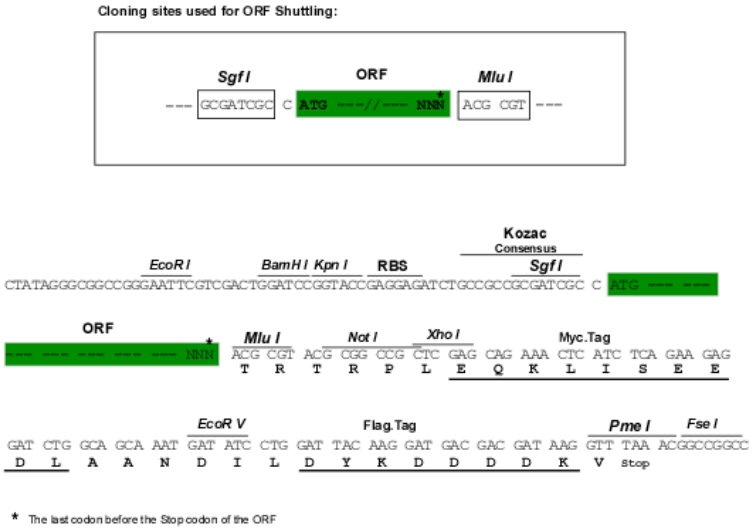
MTMDKSELVQKAKLAEQAERYDDMAAAMKAVTEQGHELSNEERNLLSVAYKNVVGARRSSWRVISSIEQK
TERNEKKQQMGKEYREKIEAELQDICNDVLELLDKYLIPNATQPESKVFYLKMKGDYFRYLSEVASGDNK
QTTVSNSQQAYQEAFEISKKEMQPTHPIRLGLALNFSVFYYEILNSPEKACSLAKTAFDEAIAELDTLNE
ESYKDSTLIMQLLRDNLTLWTSENQGDEGDAGEGEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6057_g02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_139323

ORF Size: 738 bp

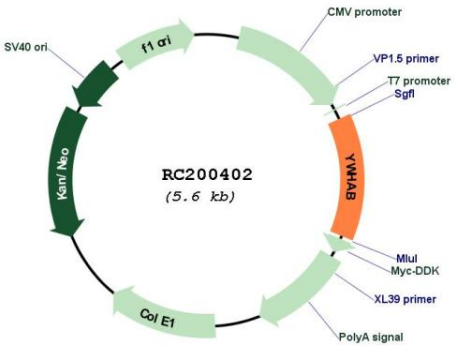
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

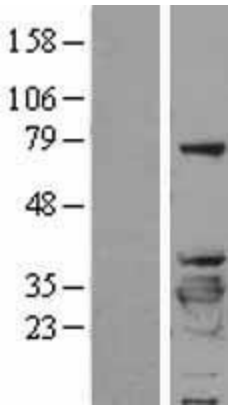
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_139323.4
RefSeq Size:	3136 bp
RefSeq ORF:	741 bp
Locus ID:	7529
UniProt ID:	P31946
Cytogenetics:	20q13.12
Domains:	14-3-3
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Neurotrophin signaling pathway, Oocyte meiosis
MW:	28.1 kDa
Gene Summary:	This gene encodes a protein belonging to the 14-3-3 family of proteins, members of which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals. The encoded protein has been shown to interact with RAF1 and CDC25 phosphatases, suggesting that it may play a role in linking mitogenic signaling and the cell cycle machinery. Two transcript variants, which encode the same protein, have been identified for this gene. [provided by RefSeq, Jul 2008]

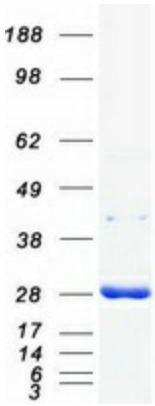
Product images:



Circular map for RC200402



Western blot validation of overexpression lysate (Cat# [LY403387]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200402 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified YWHAB protein (Cat# [TP300402]). The protein was produced from HEK293T cells transfected with YWHAB cDNA clone (Cat# RC200402) using MegaTran 2.0 (Cat# [TT210002]).