

Product datasheet for **SC118005**

14-3-3 beta (YWHAB) (NM_003404) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	14-3-3 beta (YWHAB) (NM_003404) Human Untagged Clone
Tag:	Tag Free
Symbol:	14-3-3 beta
Synonyms:	GW128; HEL-S-1; HS1; KCIP-1; YWHAA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118005 sequence for NM_003404 edited (data generated by NextGen Sequencing)

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ATGACAATGGATAAAAAGTGAGCTGGTACAGAAAGCCAAACTCGCTGAGCAGGCTGAGCGA
TATGATGATATGGCTGCAGCCATGAAGGCAGTCACAGAACAGGGCATGAACTCTCCAAC
GAAGAGAGAAATCTGCTCTCTGTGCTACAAGAATGTGGTAGGCGCCCGCCGCTTTCC
TGGCGTGT CATCTCCAGCATTGAGCAGAAAACAGAGAGGAATGAGAAGAAGCAGCAGATG
GGCAAAGAGTACCGTGAGAAGATAGAGGCAGAAGTGCAGGACATCTGCAATGATGTTCTG
GAGCTGTTGGACAAATATCTTATCCCAATGCTACACAACCAGAAAGTAAGGTGTTCTAC
TTGAAAATGAAAGGAGATTATTTTAGGTATCTTTCTGAAGTGGCATCTGGAGACAACAAA
CAAACCACTGTGTCGAACTCCCAGCAGGCTTACCAGGAAGCATTTGAAATTAGTAAGAAA
GAAATGCAGCCTACACACCCAATTCGTCTTGGTCTGGCACTAAATTTCTCAGTCTTTTAC
TATGAGATTCTAAACTCTCCTGAAAAGGCCTGTAGCCTGGCAAAAACGGCATTGATGAA
GCAATTGTGTAATTGGATACGCTGAATGAAGAGTCTTATAAAGACAGCACTCTGATCATG
CAGTTACTTAGGGACAATCTCACTCTGTGGACATCGGAAAACCAGGGAGACGAAGGAGAC
GCTGGGGAGGGAGAGAATAA
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Clone variation with respect to NM_003404.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003404 unedited
 GGCAGGATTTTGTAAACGAACCTCTATAGGGCGGCCGNAATTCGCACGAGGCCGGAG
 CCGGGGTAGTCGCCGCCGCCGCCGCTGCAGCCACTGCAGGCACCGCTGCCGCCGCT
 GAGTAGTGGGCTTAGGAAGGAAGAGGTCTCTCGCTCGGAGCTTCGCTCGGAAGGGTCTT
 TGTTCCCTGCAGCCCTCCACGGGAATGACAATGGATAAAAGTGAGCTGGTACAGAAAGC
 CAAACTCGCTGAGCAGGCTGAGCGATATGATGATATGGCTGCAGCCATGAAGGCAGTAC
 AGAACAGGGGCATGAACCTCCAACGAAGAGAGAAATCTGCTCTCTGTTGCCTACAAGAA
 TGTGGTAGGCGCCGCCCTCTTCTGGCGTGTATCTCCAGCATTGAGCAGAAAACAGA
 GAGGAATGAGAAGAAGCAGCAGATGGGCAAGAGTACCGTGAGAAGATAGAGGCAGAAC
 GCAGGACATCTGCAATGATGTTCTGGAGCTGTTGGACAAATATCTTATCCCAATGCTAC
 ACAACCAGAAAGTAAGGTGTTCTACTTGAAAATGAAAGGAGATTATTTAGGTATCTTTC
 TGAAGTGGCATCTGGAGACAACANACAAACCACTGTGTCGAACTCCAGCAGGCTTACCC
 AGGAAGCCATTTGAATTAGTAAAGATAGAAATGCAGCCTACACACCCAATTCGGGCTTGT
 TCTGGCACTAAATTTTCAATCTTTACTATGAGATTCTAAACTCTCTGAAAAGCCCTG
 TTACCTGGCAAAAACGGCATTGATGAAGCAATCGCTGAATTGGATACCCTGAATGAAAA
 GTCTTATAAAGACAGCCTCTGATCATGCAGTCCCTTAGGGCCACTCCCTTTGGGGCCT
 TCGAAAACCAGGAGACG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003404 unedited
 NNNTTAGCTCTGCACCGCGCCGCATTCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGTG
 GCACAAGGGATATATGTTGAGGGTACAGAGTGACTGAACAGATCACAAAGCAGAGAA
 ACATTAGTTCTCTCCCTCCCAGCGTCTCCTTCGCTCCCTGGTTTTCCGATGTCCACAG
 AGTGAGATTGTCCTAAGTAACATGCATGATCAGAGTGCTGCTTTATAAGACTCTTCATT
 CAGCGTATCCAATTCAGCAATTGCTTCATCAAATGCCGTTTTTGGCAGGCTACAGGCCTT
 TTCAGGAGAGTTTGAATCTCATAGTAAAAGACTGAGAAATTTAGTGCCAGACCAAGACG
 AATTGGGTGTGTAGGCTGCATTTCTTTCTACTAATTTCAAATGCTTCCTGGTAAGCCTG
 CTGGGAGTTGCACACAGTGGTTTGTGTTGTCTCCAGATGCCACTTCAGAAAGATACCT
 AAAATAATCTCCTTTTCAATTTCAAGTAGAACACCTTACTTTCTGGTTGTGTAGCATTGGG
 AATAAGATATTTGTCCAACAGCTCCAGAACATCATTGCAGATGCTCCTGCAGTTCTGCCTC
 TATCTTCTCACGGTACTCTTGGCCATCTGCTGCTTCTTCTCATTCTCTCTGTTCTCTG
 CTCAATGCTGGAGATGACCCGCCAGGAAGAGCGCCGGGGCCCTACACATTCTTGTAAAGC
 ACAGAGAGCAAATTCCTCTTCGTTGGGAAGNTCATGCCCTGGTCTGGGACTGCCTCATG
 GCTGCACCCTTATATCATATCGTTCACCTGCTCAGCGAGTTTGGCTTTCTGAACCACCC
 ACTTTTACCATTGGCATTCCCGGGGAGGGCTGAGGGAACAAGAACCTCCCGGAGGAACC
 CCCGACGAG

Restriction Sites:

NotI-NotI

ACCN:

NM_003404

Insert Size:

1000 bp

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).

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:	<ol style="list-style-type: none">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_003404.3 , NP_003395.1
RefSeq Size:	3110 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
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>