

Product datasheet for **SC124249**

14-3-3 zeta (YWHAZ) (NM_145690) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	14-3-3 zeta (YWHAZ) (NM_145690) Human Untagged Clone
Tag:	Tag Free
Symbol:	14-3-3 zeta
Synonyms:	14-3-3-zeta; HEL-S-3; HEL-S-93; HEL4; KCIP-1; POPCHAS; YWHAD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145690, the custom clone sequence may differ by one or more nucleotides

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ATGGATAAAAATGAGCTGGTTCAGAAGGCCAAACTGGCCGAGCAGGCTGAGCGATATGATGACATGGCAG
CCTGCATGAAGTCTGTAAGTCTGAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGTTGC
TTATAAAAATGTTGTAGGAGCCCGTAGGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAGACGGAA
GGTGCTGAGAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAATTGAGACGGAGCTAAGAGATATCT
GCAATGATGTACTGTCTCTTTTGGAAAAGTTCTTGATCCCAATGCTTCACAAGCAGAGAGCAAAGTCTT
CTATTTGAAAATGAAAGGAGATTACTACCGTACTTGGCTGAGGTTGCCGCTGGTGTGACAAGAAAGGG
ATTGTCGATCAGTCACAACAAGCATACCAAGAAGCTTTTAAAATCAGAAAAAGGAAATGCAACCAACAC
ATCCTATCAGACTGGGTCTGGCCCTTAAGTCTCTGTGTTCTATTATGAGATTCTGAACTCCCAGAGAA
AGCCTGCTCTCTTGCAAAGACAGCTTTTGTGAAGCCATTGCTGAACTTGATACATTAAGTGAAGAGTCA
TACAAAGACAGCAGCTAATAATGCAATTACTGAGAGACAACTTGACATTGTGGACATCGGATACCCAAG
GAGACGAAGCTGAAGCAGGAGAAGGAGGGGAAAATTA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_145690 unedited NNCCGTTCCAGATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACCAGGCCGCTG CTGCCGCCGCCGCCGCCCCAAAGACTGCTGAGCCCGTCCGTCCGCCGCCACCACCCACTCC GGACACAGAACATCCAGTCATGGATAAAAATGAGCTGGTTCAGAAAGGCCAAACTGGCCGA GCAGGCTGAGCGATATGATGACATGGCAGCCTGCATGAAGTCTGTAAGTGAAGGAGC TGAATTCATCCAATGAGGAGAGGAATCTTCTCAGTTGCTTATAAAAATGTTGTAGGAGC CCGTAGGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAGACGGAAGGTGCTGAGAA AAAACAGCAGATGGCTCGAGAATACAGAGAGAAAATTGAGACGGAGCTAAGAGATATCTG CAATGATGTAAGTCTCTTTTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAG CAAAGTCTTATTTGAAAATGAAAGGAGATTACTACCGTTACTTGGCTGAGGTTGCCGC TGGTGATGACAAGAAAGGATTGTCGATCAGTCACAACAAGCATACCAAGAAGCTTTTGA AATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACTGGGTCTGGCCCTTAAGT CTCTGTGTTCTATTATGAGATTCTGAAGTCCCCAGAGAAAGCCTGCTCTTTGCAAAGAC AGCTTTTGATGAAGCCATTGCTGAAGTACATTAAGTGAAGAGTCATACAAAGACAG CACGCTAATAAATGCATTACTGAGAGACTTGCATTGTGGGACATCGATACCCAGGAG ACGAACTGNAAGCAGAGAAGGAGGGGAAAATNACCGGNCNTNNACTNTNGTCTGNCTC ATNCTAAATTNCACAGTAGACATTTGTCTCCATGCTGTACAATAGTTTTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_145690
Insert Size:	3100 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
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_145690.1 , NP_663723.1
RefSeq Size:	2876 bp

RefSeq ORF:	738 bp
Locus ID:	7534
UniProt ID:	P63104
Cytogenetics:	8q22.3
Domains:	14-3-3
Protein Pathways:	Cell cycle, Neurotrophin signaling pathway, Oocyte meiosis, Pathogenic Escherichia coli infection
Gene Summary:	<p>This gene product belongs to the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals, and this protein is 99% identical to the mouse, rat and sheep orthologs. The encoded protein interacts with IRS1 protein, suggesting a role in regulating insulin sensitivity. Several transcript variants that differ in the 5' UTR but that encode the same protein have been identified for this gene. [provided by RefSeq, Oct 2008]</p> <p>Transcript Variant: This variant (2) represents the longest transcript. All six transcripts encode the same protein.</p>