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# Product datasheet for SC324832

## 14-3-3 zeta (YWHAZ) (NM_001135700) Human Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | 14-3-3 zeta (YWHAZ) (NM_001135700) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | YWHAZ |
| **Synonyms:** | 14-3-3-zeta; HEL-S-3; HEL-S-93; HEL4; KCIP-1; POPCHAS; YWHAD |
| **Vector:** | pCMV6 series |
| **Fully Sequenced ORF:** | >NCBI ORF sequence for NM_001135700, the custom clone sequence may differ by one or more nucleotides<br>ATGGATAAAAATGAGCTGGTTCAGAAGGCCAAACTGGCCGAGCAGGCTGAGCGATATGAT<br>GACATGGCAGCCTGCATGAAGTCTGTAACTGAGCAAGGAGCTGAATTATCCAATGAGGAG<br>AGGAATCTTCTCTCAGTTGCTTATAAAAATGTTGTAGGAGCCCGTAGGTCATCTTGGAGG<br>GTCGTCTCAAGTATTGAACAAAAGACGGAAGGTGCTGAGAAAAAACAGCAGATGGCTCGA<br>GAATACAGAGAGAAAATTGAGACGGAGCTAAGAGATATCTGCAATGATGTACTGTCTCTT<br>TTGGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCAAAGTCTTCTATTTGAAA<br>ATGAAAGGAGATTACTACCGTTACTTGGCTGAGGTTGCCGCTGGTGATGACAAGAAAGGG<br>ATTGTCGATCAGTCACAACAAGCATACCAAGAAGCTTTTGAAATCAGCAAAAAGGAAATG<br>CAACCAACACATCCTATCAGACTGGGTCTGGCCCTTAACTTCTCTGTGTTCTATTATGAG<br>ATTCTGAACTCCCCAGAGAAAGCCTGCTCTCTTGCAAAGACAGCTTTTGATGAAGCCATT<br>GCTGAACTTGATACATTAAGTGAAGAGTCATACAAAGACAGCACGCTAATAATGCAATTA<br>CTGAGAGACAACTTGACATTGTGGACATCGGATACCCAAGGAGACGAAGCTGAAGCAGGA<br>GAAGGAGGGGAAAAT |
| **Restriction Sites:** | Please inquire |
| **ACCN:** | NM_001135700 |
| **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). |
| **OTI Annotation:** | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| **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). |

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001135700.1, NP_001129172.1 |
| **RefSeq Size:** | 2974 bp |
| **RefSeq ORF:** | 738 bp |
| **Locus ID:** | 7534 |
| **UniProt ID:** | P63104 |
| **Cytogenetics:** | 8q22.3 |
| **Protein Pathways:** | Cell cycle, Neurotrophin signaling pathway, Oocyte meiosis, Pathogenic Escherichia coli infection |
| **Gene Summary:** | 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] Transcript Variant: This variant (4) differs in the 5' UTR compared to variant 2. All six transcripts encode the same protein. |