

## Product datasheet for **SC126632**

### 14 3 3 eta (YWHAH) (NM\_003405) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	14 3 3 eta (YWHAH) (NM_003405) Human Untagged Clone
Tag:	Tag Free
Symbol:	14 3 3 eta
Synonyms:	YWHA1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC126632 sequence for NM_003405 edited (data generated by NextGen Sequencing)

```
ATGGGGGACCGGGAGCAGCTGCTGCAGCGGGCGCGGCTGGCCGAGCAGGCGGAGCGCTAC
GACGACATGGCCTCCGCTATGAAGCGGGTACAGAGCTGAATGAACCTCTCTCCAATGAA
GATCGAAATCTCCTCTCTGTGGCTACAAGAATGTGGTTGGTCCAGGCGATCTTCTGG
AGGGTCATTAGCAGCATTGAGCAGAAAACCATGGCTGATGGAAACGAAAAGAAATTGGAG
AAAGTTAAAGCTTACCGGGAGAAGATTGAGAAGGAGCTGGAGACAGTTTGCAATGATGTC
CTGTCTCTGCTTGACAAGTTCTGATCAAGAACTGCAATGATTTCCAGTATGAGAGCAAG
GTGTTTTACCTGAAAATGAAGGGTGATTACTACCGCTACTTAGCAGAGGTCGCTTCTGGG
GAGAAGAAAAACAGTGTGGTCGAAGCTTCTGAAGCTGCCTACAAGGAAGCCTTTGAAATC
AGCAAAGAGCAGATGCAACCCACGCATCCCATCCGGCTGGGCCTGGCCCTCAACTTCTCC
GTGTTCTACTATGAGATCCAGAATGCACCTGAGCAAGCCTGCCTCTTAGCCAAACAAGCC
TTCGATGATGCCATAGCTGAGCTGGACACACTAAACGAGGATTCTATAAGGACTCCACG
CTGATCATGCAGTTGCTGCGAGACAACCTCACCTCTGGACGAGCGACCAGCAGGATGAA
GAAGCAGGAGAAGGCAACTGA
```

Clone variation with respect to NM\_003405.3



[View online »](#)

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003405 unedited  
 TTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGACAGCGCGGGGCGAG  
 CCAGCGAGAGGGCGGAGCGGGCGGCGCTGCCTGCAGCCTGCAGCCTCCGGCCG  
 GCCGGCGAGCCAGTGCGCGTGCGCGGGCGGCGCTCCGCAGCGACCGGGGAGCGGACTGA  
 CCGGGGGAGGGCTAGCGAGCCAGCGGTGTGAGGCGGAGGCGAGGCCGAGCCGCGAGCG  
 ACATGGGGGACCGGGAGCAGCTGCTGCAGCGGGCGGCGTGGCCGAGCAGCGGGAGCGCT  
 AAGATCGAAATCTCTCTGTGGCCTACAAGAATGTGGTTGGTCCAGCGATCTCTCT  
 GGAGGGTCATTAGCAGCATTGAGCAGAAAAACCATTGGCTGATGGAAACGAAAAGAAATTGG  
 AGAAAGTTAAAGCTTACCGGGAGAAGATTGAGAAGGAGCTGGAGACAGTTTGCAATGATG  
 TCCTGTCTCTGCTTGACAAGTTCCTGATCAAGAACTGCAATGATTTCCAGTATGAGAGCA  
 AGGTGTTTTACCTGAAAAAAGGGTGATTACTACCGCTACTTANAGAGGTCGTTCTG  
 GGGAGAAGAAAAACAGTGTGGTCGAAGCTTCTGAAGCTGCCTACAGGGAAGCCTTTGAAA  
 TCAGCAAGAGCAGATGCAACCCACGCATCCATCCGGGTGGCCCTGGCCCTAAACTTCT  
 CCGGGGGTCTCTATGAGATCCAGAATGCCCTGAGCAAGCCTTGCTCTTACAAAACAGC  
 CTTGATGATGGCATAGCTGACCTGGACCACTTAAAGAGATCCTATAGGGA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_003405 unedited  
 TCGCAGCGCATTATTTTACCCATTGATTCCAAAACATTTATTTTAGAAGTCTGGCATTTC  
 TAATCACCCATCTTGATTGACATGGAGCTGACACACATGGCGCTGTCAGGATACACAAGG  
 ACAATAGCCAAAGAGTTACAAAAATAAATCCATGATTCTTAAACAATTGCAACCAAAAA  
 AAAAAAAGTTACAAGTATCAAACTTTTCAAGTGCATTGCAATGAAAAGAAGGTTTG  
 CAGTGCATAATTTAAAGAGGCAAAACCAAGGAGCTACTGAAACCTCACGTTAAACAGTTT  
 ATTATAAAGCTGATGGAAAGGAGCAAGTTGTCTCTGTATCAGTTCCTTAAACAGTTT  
 TCCATTAATTGAAGAAAGAGGTGGGAGGGTGAATTCATTTTTGCATGCAAGATGTAC  
 TGCTTAACGAAACACTATCAGCTTGTTTTAAATGGATCTTTTAAATCAACTGTAGCCT  
 GGTTGGCTAATCTTTCTAATCTTCCCCATTACTTTTCGCTAGATTTCCCATAGATCAAC  
 AGGCATAGTAAAAATGCCTCATCAGAACACACTTCCACACAATCAAAAAGGGAGCTCC  
 TGTGGGCTCAAAGCAACCATCAGTCCAGCAATGCCATGATTTATCTGAAACTGCTTCCC  
 AAGAGACAGGAGTGCAGATCTGAGTAGCTGTGCTGCCAATACAGATAGGTTTAGCACTAG  
 ATATTTAGTGTGTTGGCAAGGAAGAATCGGTGATGATGGGGTGGTGGTGAAGGAAGG  
 GCCAGGGGACCTGAAGGATCTTCAAGTTCCTTCTNCTGCTTCTTATCCTGCTGGTCTGCT  
 CGTCCAGAGGGTGAAGTTGTCTCGCAGCACTGCATGATCAGCGTGGAGTCCCTTATAGAA  
 ATCCCNNNTTATGTGTCCAGCTCANCTATGCATCATCAAAGCTTGNNTTGCTAAAAGCA  
 GCCTGCTCAGTGCATN

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_003405

**Insert Size:**

1840 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003405.3</a> , <a href="#">NP_003396.1</a>
<b>RefSeq Size:</b>	1807 bp
<b>RefSeq ORF:</b>	741 bp
<b>Locus ID:</b>	7533
<b>UniProt ID:</b>	<a href="#">Q04917</a>
<b>Cytogenetics:</b>	22q12.3
<b>Domains:</b>	14-3-3
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Cell cycle, Neurotrophin signaling pathway, Oocyte meiosis
<b>Gene Summary:</b>	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 bovine orthologs. This gene contains a 7 bp repeat sequence in its 5' UTR, and changes in the number of this repeat have been associated with early-onset schizophrenia and psychotic bipolar disorder. [provided by RefSeq, Jun 2009]