

Product datasheet for **SC124450**

14 3 3 gamma (YWHAG) (NM_012479) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	14 3 3 gamma (YWHAG) (NM_012479) Human Untagged Clone
Tag:	Tag Free
Symbol:	14 3 3 gamma
Synonyms:	14-3-3GAMMA; DEE56; EIEE56; PPP1R170
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC124450 sequence for NM_012479 edited (data generated by NextGen Sequencing)

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ATGGTGGACCGCGAGCAACTGGTGCAGAAAGCCCGCTGGCCGAGCAGGCGGAGCGCTAC
GACGACATGGCCCGGCCATGAAGAACGTGACAGAGCTGAATGAGCCACTGTCTGAATGAG
GAACGAAACCTTCTGTCTGTGGCTACAAGAACGTTGTGGGGGCACGCCGCTCTTCTGG
AGGGTCATCAGTAGCATTGAGCAGAAGACATCTGCAGACGGCAATGAGAAGAAGATTGAG
ATGGTCCGTGCGTACCGGGAGAAGATAGAGAAGGAGTTGGAGGCTGTGTGCCAGGATGTG
CTGAGCCTGCTGGATAACTACCTGATCAAGAATTGCAGCGAGACCCAGTACGAGAGCAAA
GTGTTCTACCTGAAGATGAAAGGGGACTACTACCGCTACCTGGCTGAAGTGGCCACCGGA
GAGAAAAGGGCGACGGTGGTGGAGTCTCCGAGAAGGCCACAGCGAAGCCCACGAGATC
AGCAAAGAGCACATGCAGCCCACCCACCCATCCGATTAGGCCTGGCTCTTAACTACTCC
GTCTTCTACTATGAGATCCAGAACGCCCCAGAGCAAGCGTGCCACTTGGCCAAGACCGCG
TTGACGACGCCATCGCCGAGCTTGACACCCTCAACGAGGACTCCTACAAGGACTCCACG
CTCATCATGCAGCTCCTCCGCGACAACCTCACGCTCTGGACGAGCGACCAGCAGGACGAC
GATGGCGGCGAAGGCAACAATTA
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Clone variation with respect to NM_012479.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012479 unedited
 AGGGCGGCCGCGTAATTCGCACGAGGGCGCAGCCGCCCTCAGCTGCTCGCTCTGTGGG
 TCGGTCTCTCCGGCACTTGGGCTCCAGTCGCGCCCTCCAAGCCCTTCAGGCCGCCCCAG
 TGTCTCTCTCTCTCCGGCCAGACCCAGCCCCGGAAGATGGTGGACCGCGAGCAACTG
 GTGCAGAAAGCCCGGCTGGCCGAGCAGGCGGAGCGCTACGACGACATGGCCGCGGCCATG
 AAGAACGTGACAGAGCTGAATGAGCCACTGTGCAATGAGGAACGAAACCTTCTGTCTGTG
 GCCTACAAGAACGTTGTGGGGGACGCCGCTCTCCTGGAGGGTCATCAGTAGCATTGAG
 CAGAAGACATCTGCAGACGGCAATGAGAAGAAGATTGAGATGGTCCGTGCGTACCGGGAG
 AAGATAGAGAAGGAGTTGGAGGCTGTGTGCCAGGATGTGCTGAGCCTGCTGGATAACTAC
 CTGATCAAGAATTGCAGCGAGACCCAGTACGAGAGCAAAGTGTCTACCTGAAGATGAAA
 GGGGACTACTACCGCTACCTGGCTGAAGTGGCCACCGGAGAGAAAAGGGCGACGGTGGT
 GGAGTCTCTGAGAAGGCTACAGCGAAGCCCACGAGATCAGCAAAGAGCACATGCAGCC
 CACCCACCCCATCCGATTAGGCCTGGCTCTTAATACTNCGTCTTCACTATGAGATCCAG
 AACGCCCCAGAGCAGCGTCCACTTGCCAAGACCGCGTTCGACGAGCCATCGNCGAGCTT
 GACACCCTAACGAAGACTCTACAAGGACTNCCGCTCATATGCAGNTCCTCGNGACAACCTC
 CGCTCTGGAGAGCGACANCAAGACNANATGGCGGCAAGCACATTAAGCCCAGGGACTGCAC
 GC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012479 unedited
 GTACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTCAAATCTGTAAGTTTATTTGCTCAATGTACGACAGCTACATAATGACTCACAT
 TCATGATATTCATCACTGAGGAACTGCTAAAGATGGTCCGTGTGAAATAATTCCTT
 AAAGAAACACGGAGCTGGAAAAATAATCACTGATTAGACCTTAAAAATAGTTCACCTGCAT
 AACATGACAAAAAGCACAAAGGCTCATTAGAGAACATATTTGTTGTTCTCAACCTGT
 AATAGTTATAATTTACCATGACAAACACCAGACATTAAGATTAAGCTAACCCCTGGTGT
 TCTTTTGCTCCCCCTTTAAAAACAAAATATAAAGTGCATGTCACTATAGCAACATC
 CAAAACAGATCAATTTGTTACAATCACTATTTGGTAGAGCAAACCTTACCCCAAAGGA
 AAAATTAATTAATAAAAAAAAAAACTTTAAAAATTTGAAGACTTAATTTTTTTTGTGAT
 AGGAATACATAACACCTACAGTAAAGTAAATCAATTTCAAGCTACTGTATAGAAATACA
 ACATAGCATGCACAATTTGTATCAATAGAGTAATGGAGGAGTAATCATTCCCTGGAG
 AGACAGTTCATAGGCCAGTGCATTTCTTTAAAAATAAAGAAAAAGAAAAACCATTTACAGG
 TGCTTTAATATCAAGTCTCCCATTTCCCTCTCCGTTTCAGCCCTCAGTGGGGATTTT
 TCTTGCTTATTCTAAAAAGCAGCCGGGAGCCAAAGCTGGAATTTAAGGAAAAATAGTT
 TTGTTATTTAGTAAATCATTTCAAATGCTACAGGGAAAACCCACCTTGCTTCTTGGACT
 GAAGATAATATGGGAAAGCCCCCTTCCGTGCGCCCCCCCCCCCCCCCCNAAAAAAT
 TTTNTAGGGAAGCTTTGGGGCGGGGAGGAGCCAAACCGGTGAGTTTTTTTTTCTT

Restriction Sites:

ECoRI-NOT

ACCN:

NM_012479

Insert Size:

4200 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_012479.2 , NP_036611.2
RefSeq Size:	3747 bp
RefSeq ORF:	744 bp
Locus ID:	7532
UniProt ID:	P61981
Cytogenetics:	7q11.23
Domains:	14-3-3
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Neurotrophin signaling pathway, Oocyte meiosis
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 100% identical to the rat ortholog. It is induced by growth factors in human vascular smooth muscle cells, and is also highly expressed in skeletal and heart muscles, suggesting an important role for this protein in muscle tissue. It has been shown to interact with RAF1 and protein kinase C, proteins involved in various signal transduction pathways. [provided by RefSeq, Jul 2008]</p>