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Product datasheet for SC320619

14-3-3 epsilon (YWHAE) (NM_006761) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	14-3-3 epsilon (YWHAE) (NM_006761) Human Untagged Clone
Tag:	Tag Free
Symbol:	14-3-3 epsilon
Synonyms:	14-3-3E; HEL2; KCIP-1; MDCR; MDS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_006761.3
CGGAGCGAGAGGCTGAGAGAGTCGGAGACACTATCCGCTTCCATCCGTCGCGCAGACCCT
GCCGGAGCCGCTGCCGCTATGGATGATCGAGAGGATCTGGTGTACCAGGCGAAGCTGGCC
GAGCAGGCTGAGCGATACGACGAAATGGTGGAGTCAATGAAGAAAGTAGCAGGGATGGAT
GTGGAGCTGACAGTTGAAGAAAGAAACCTCCTATCTGTTGCATATAAGAATGTGATTGGA
GCTAGAAGAGCCTCCTGGAGAATAATCAGCAGCATTGAACAGAAAGAAGAAAACAAGGGA
GGAGAAGACAAGCTAAAAATGATTCGGGAATATCGGCAAATGGTTGAGACTGAGCTAAAG
TTAATCTGTTGTGACATTCTGGATGTACTGGACAAACACCTCATTCCAGCAGCTAACACT
GGCGAGTCCAAGGTTTTCTATTATAAAATGAAAGGGGACTACCACAGGTATCTGGCAGAA
TTTGCCACAGGAAACGACAGGAAGGAGGCTGCGGAGAACAGCCTAGTGGCTTATAAAGCT
GCTAGTGATATTGCAATGACAGAACTTCCACCAACGCATCCTATTCGCTTAGGTCTTGCT
CTCAATTTTTCCGTATTCTACTACGAAATTCTTAATTCCCCTGACCGTGCCTGCAGGTTG
GCAAAAGCAGCTTTTGATGATGCAATTGCAGAACTGGATACGCTGAGTGAAGAAAGCTAT
AAGGACTCTACACTTATCATGCAGTTGTTACGTGATAATCTGACACTATGGACTTCAGAC
ATGCAGGGTGACGGTGAAGAGCAGAATAAAGAAGCGCTGCAGGACGTGGAAGACGAAAAT
CAGTGAGACATAAGCCAACAAGAGAAACCATCTCTGACCACCCCCTCCTCCCCATCCCAC
CCTTTGGAAACTCCCCATTGTCACTGAGAACCACCAAATCTGACTTTTACATTTGGTCTC
AGAATTTAGGTTCCTGCCCTGTTGGTTTTTTTTTTTTTTTTTTAAACAGTTTTCAAAAG
TTCTTAAAGGCAAGAGTGAATTTCTGTGGATTTTACTGGTCCCAGCTTTTAGGTTCTTTA
AGACACTAACAGGACTACATAGAGGCTTTTTCAGCATTACTGTGTCGTCTCCGTGCCAGA
TGTGGCAAGATCACCATTAGCAAATGGAAATTACATTTGAAAGCCATTAGACTTACAGGT
GATGCAAGCATCTAAGAGAGAGGTTAATCACACTATAGAGGCATAAGTGGTATCAGTTTT
CATTTTTCTAATTGTTTAAACTGTGTTTTATACCAGTGTTTGCAAGTAATTGGGTGTTAG
CTTGAGATGGTTAAAGGTGGTTTGGGGAGGGACTTCGTTGTAATGGTTTTGCTGTAAAAA
ATGTTTCCAACTCCGCTGAAATGTTGCTGAAAAGCATGGTGCTGGTAACAGTTCAACAAT
CCGTGGCTGCTCATTCTTGCCTACTTTACTCTCCCACTGAAGCAGGTTAGCGTTGAAGGT
GGTATGGAAAAGCCTGCATGCCTGTTCAATTCTTTTGTTTCTTCTCCTTCCCCCTCCCCC
TACCTCCTTCCCCTCACTCCTCCCCTCCTTCGCTCGCTCAACCTCTTTTGTTCAGTATGT
GTAACTTGAAGCTAATTTGTACTACTGGATATCTGACTGGAGCCACAGATACAGAATCTG
TATTGTTCTTACTGAAACACAGCATGGAATTAACATTAAACTTAAATAAAACAAACCTAA
ATTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_006761

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).

Reconstitution Method:	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_006761.3, NP_006752.1
RefSeq Size:	1810 bp
RefSeq ORF:	768 bp
Locus ID:	7531
UniProt ID:	P62258
Cytogenetics:	17p13.3
Domains:	14-3-3
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Neurotrophin signaling pathway, Oocyte meiosis
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 100% identical to the mouse ortholog. It interacts with CDC25 phosphatases, RAF1 and IRS1 proteins, suggesting its role in diverse biochemical activities related to signal transduction, such as cell division and regulation of insulin sensitivity. It has also been implicated in the pathogenesis of small cell lung cancer. Two transcript variants, one protein-coding and the other non-protein-coding, have been found for this gene. [provided by RefSeq, Aug 2008] Transcript Variant: This variant (1) represents the protein-coding transcript.