

Product datasheet for **RG200245**

14-3-3 epsilon (YWHAE) (NM_006761) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | 14-3-3 epsilon (YWHAE) (NM_006761) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | 14-3-3 epsilon |
| Synonyms: | 14-3-3E; HEL2; KCIP-1; MDCR; MDS |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG200245 representing NM_006761 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGATCGAGAGGATCTGGTGTACCAGGCCAAGCTGGCCGAGCAGGCTGAGCGATACGACGAAATGG
TGGAGTCAATGAAGAAAGTAGCAGGGATGGATGTGGAGCTGACAGTTGAAGAAAGAAACCTCCTATCTGT
TGCATATAAGAAATGTGATTGGAGCTAGAAGAGCCTCCTGGAGAATAATCAGCAGCATTGAACAGAAAGAA
GAAAACAAGGGAGGAGAAGACAAGCTAAAAATGATTCGGGAATATCGGCAATGGTTGAGACTGAGCTAA
AGTTAATCTGTTGTGACATTCTGGATGTACTGGACAAACACCTCATTCCAGCAGCTAACACTGGCGAGTC
CAAGGTTTTCTATTATAAAATGAAAGGGGACTACCACAGGTATCTGGCAGAATTTGCCACAGGAAACGAC
AGGAAGGAGGCTGCGGAGAACAGCCTAGTGGCTTATAAAGCTGCTAGTGATATTGCAATGACAGAACTTC
CACCAACGCATCCTATTCGCTTAGGTCTTGCTCTCAATTTTTCCGTATTCTACTACGAAATTTCTTAATTC
CCCTGACCGTGCCTGCAGGTTGGCAAAGCAGCTTTTGATGATGCAATTGCAGAACTGGATACGCTGAGT
GAAGAAAGCTATAAGGACTCTACACTTATCATGCAGTTGTTACGTGATAATCTGACACTATGGACTTCAG
ACATGCAGGTTGACGGTGAAGAGCAGAATAAAGAAGCGCTGCAGGACGTGGAAGACGAAAATCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200245 representing NM_006761
 Red=Cloning site Green=Tags(s)

MDDREDLVYQAKLAEQAERYDEMVEVSMKKVAGMDVELTVEERNLLSVAYKNVIGARRASWRIISSIEQKE
 ENKGGEDLKMIREYRQMVETELKLIICDILDVLDKHLIPAANTGESKVFYKMKGDYHRYLAEFATGND
 RKEAAENSLVAYKAASDIAMTELPPTHPIRLGLALNFSVFYYEILNSPDRACRLAKAAFDDAIAELDTLS
 EESYKDSLIMQLLRDNLTLWTSDMQGDGEEQNKEALQDVEDENQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006761

ORF Size: 765 bp

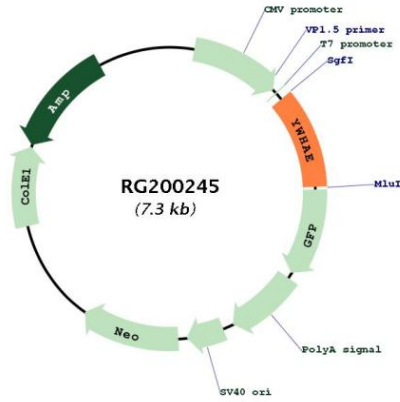
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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. |
| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | NM_006761.5 |
| 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: | <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 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]</p> |

Product images:



Circular map for RG200245