

## Product datasheet for **RC200013**

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

#### Product data:

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                               |
| Product Name:             | 14 3 3 eta (YWHAH) (NM_003405) Human Tagged ORF Clone             |
| Tag:                      | Myc-DDK                                                           |
| Symbol:                   | 14 3 3 eta                                                        |
| Synonyms:                 | YWHA1                                                             |
| Mammalian Cell Selection: | Neomycin                                                          |
| Vector:                   | pCMV6-Entry (PS100001)                                            |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                              |
| ORF Nucleotide Sequence:  | >RC200013 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGACCGGGAGCAGCTGCTGCAGCGGGCGGGCTGGCCGAGCAGCGGAGCGCTACGACGACATGG  
CCTCCGCTATGAAGCGGTGACAGAGCTGAATGAACCTCTCTCCAATGAAGATCGAAATCTCCTCTGT  
GGCCTACAAGAAATGTGGTTGGTGCCAGGCGATCTTCTGGAGGGTCATTAGCAGCATTGAGCAGAAAACC  
ATGGCTGATGAAACGAAAAGAAATTGGAGAAAGTTAAAGCTTACCGGGAGAAGATTGAGAAGGAGCTGG  
AGACAGTTTGCAATGATGTCCTGTCTGCTTGACAAGTTCTGATCAAGAACTGCAATGATTTCCAGTA  
TGAGAGCAAGGTGTTTTACCTGAAAATGAAGGGTGATTACTACCGCTACTTAGCAGAGGTCGCTTCTGGG  
GAGAAGAAAAACAGTGTGGTCGAAGCTTCTGAAGCTGCCTACAAGGAAGCCTTTGAAATCAGCAAAGAGC  
AGATGCAACCCACGCATCCCATCCGGCTGGGCCTGGCCCTCAACTTCTCCGTGTTCTACTATGAGATCCA  
GAATGCACCTGAGCAAGCCTGCCTTTAGCCAAACAAGCCTTCGATGATGCCATAGCTGAGCTGGACACA  
CTAAACGAGGATTCCTATAAGGACTCCACGCTGATCATGCAGTTGCTGCGAGACAACCTCACCTCTGGA  
CGAGCGACCAGCAGGATGAAGAAGCAGGAGAAGGCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC200013 protein sequence  
Red=Cloning site Green=Tags(s)

MGDREQLLQRARLAEQAERYDDMASAMKAVTELNEPLSNEDRNLLSVAYKNVVGARRSSWRVISSIEQKT  
MADGNEKKLEKVKAYREKIEKELETVCNDVLSLLDKFLIKNCDFQYESKVFYLMKMGDYRYLAEVASG  
EKKNSVVEASEAAYKEAFEISKEQMOPHTPIRLGLALNFSVFYYEIQNAPEQAQLLAKQAFDDAI AELDT  
LNEDSYKDSLIMQLLRDNLTLWTSDQQDEEAGEGN

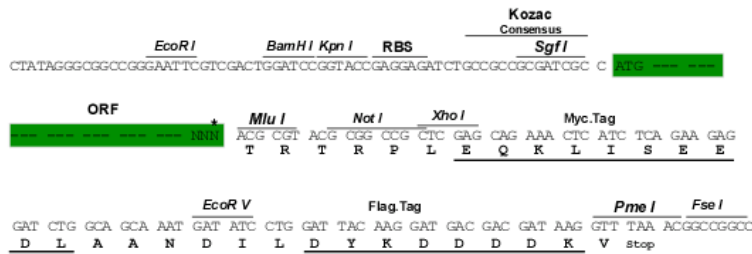
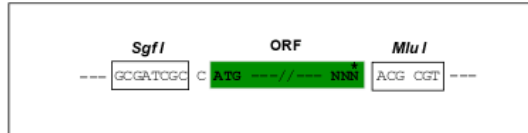
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6233\\_e08.zip](https://cdn.origene.com/chromatograms/mk6233_e08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_003405

**ORF Size:** 738 bp

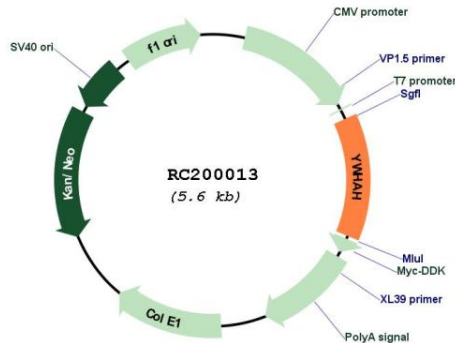
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

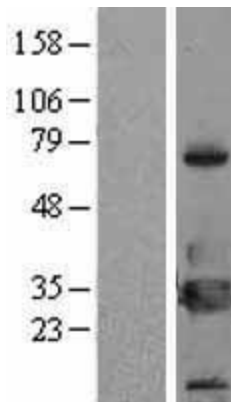
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>RefSeq:</b>                | <a href="#">NM_003405.4</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>MW:</b>                    | 28.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <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] |

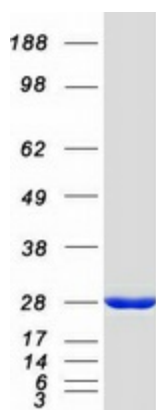
Product images:



Circular map for RC200013



Western blot validation of overexpression lysate (Cat# [LY418678]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200013 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified YWHAH protein (Cat# [TP300013]). The protein was produced from HEK293T cells transfected with YWHAH cDNA clone (Cat# RC200013) using MegaTran 2.0 (Cat# [TT210002]).