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# Product datasheet for RG200013

## 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:** | TurboGFP |
| **Symbol:** | 14 3 3 eta |
| **Synonyms:** | YWHA1 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**ORF Nucleotide Sequence:**

```
>RG200013 representing NM_003405
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGACCGGGAGCAGCTGCTGCAGCGGGCGCGGCTGGCCGAGCAGGCGGAGCGCTACGACGACATGG
CCTCCGCTATGAAGGCGGTGACAGAGCTGAATGAACCTCTCTCCAATGAAGATCGAAATCTCCTCTCTGT
GGCCTACAAGAATGTGGTTGGTGCCAGGCGATCTTCCTGGAGGGTCATTAGCAGCATTGAGCAGAAAACC
ATGGCTGATGGAAACGAAAAGAAATTGGAGAAAGTTAAAGCTTACCGGGAGAAGATTGAGAAGGAGCTGG
AGACAGTTTGCAATGATGTCCTGTCTCTGCTTGACAAGTTCCTGATCAAGAACTGCAATGATTTCCAGTA
TGAGAGCAAGGTGTTTTACCTGAAAATGAAGGGTGATTACTACCGCTACTTAGCAGAGGTCGCTTCTGGG
GAGAAGAAAAACAGTGTGGTCGAAGCTTCTGAAGCTGCCTACAAGGAAGCCTTTGAAATCAGCAAAGAGC
AGATGCAACCCACGCATCCCATCCGGCTGGGCCTGGCCCTCAACTTCTCCGTGTTCTACTATGAGATCCA
GAATGCACCTGAGCAAGCCTGCCTCTTAGCCAAACAAGCCTTCGATGATGCCATAGCTGAGCTGGACACA
CTAAACGAGGATTCCTATAAGGACTCCACGCTGATCATGCAGTTGCTGCGAGACAACCTCACCCTCTGGA
CGAGCGACCAGCAGGATGAAGAAGCAGGAGAAGGCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag -  GTTTAA
```

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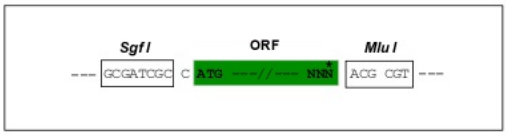
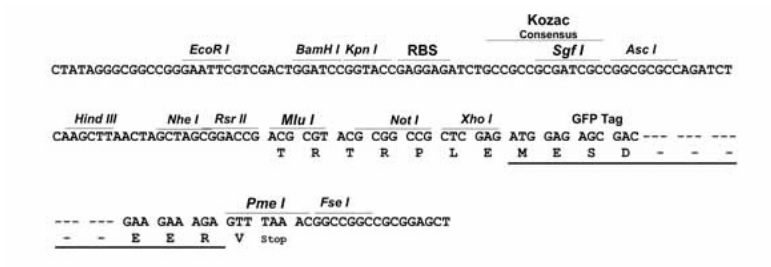
**Protein Sequence:**

```
>RG200013 representing NM_003405
Red=Cloning site Green=Tags(s)

MGDREQLLQRARLAEQAERYDDMASAMKAVTELNEPLSNEDRNLLSVAYKNVVGARRSSWRVISSIEQKT
MADGNEKKLEKVKAYREKIEKELETVCNDVLSLLDKFLIKNCNDFQYESKVFYLKMKGDYYRYLAEVASG
EKKNSVVEASEAAYKEAFEISKEQMQPTHPIRLGLALNFSVFYYEIQNAPEQACLLAKQAFDDAIAELDT
LNEDSYKDSTLIMQLLRDNLTLWTSDQQDEEAGEGN

TRTRPLE - GFP Tag -  V
```

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**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).

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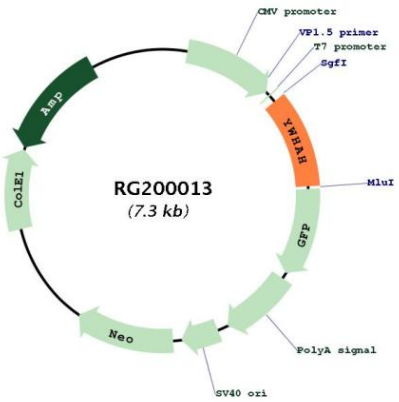
| | |
|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_003405.4 |
| **RefSeq Size:** | 1807 bp |
| **RefSeq ORF:** | 741 bp |
| **Locus ID:** | 7533 |
| **UniProt ID:** | Q04917 |
| **Cytogenetics:** | 22q12.3 |
| **Domains:** | 14-3-3 |
| **Protein Families:** | Druggable Genome, Transcription Factors |
| **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 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 RG200013

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