

## Product datasheet for **RG201925**

### 14 3 3 gamma (YWHAG) (NM\_012479) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	14 3 3 gamma (YWHAG) (NM_012479) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	14 3 3 gamma
Synonyms:	14-3-3GAMMA; DEE56; EIEE56; PPP1R170
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201925 representing NM_012479 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGGACCGCGAGCAACTGGTGCAGAAAGCCCGGCTGGCCGAGCAGCGGAGCGCTACGACGACATGG  
CCGCGGCCATGAAGAACGTGACAGAGCTGAATGAGCCACTGTGCAATGAGGAACGAAACCTTCTGTCTGT  
GGCCTACAAGAACGTTGTGGGGCAGCCGCTCTTCTGGAGGGTCATCAGTAGCATTGAGCAGAAGACA  
TCTGCAGACGGCAATGAGAAGAAGATTGAGATGGTCCGTGCGTACCGGGAGAAGATAGAGAAGGAGTTGG  
AGGCTGTGTGCCAGGATGTGCTGAGCCTGCTGGATAACTACCTGATCAAGAATTGCAGCGAGACCCAGTA  
CGAGAGCAAAGTGTCTACCTGAAGATGAAAGGGGACTACTACCGCTACCTGGCTGAAGTGGCCACCGGA  
GAGAAAAGGGCGACGGTGGTGGAGTCTCTGAGAAGGCCCTACAGCGAAGCCCACGAGATCAGCAAAGAGC  
ACATGCAGCCCACCCACCCATCCGATTAGGCCTGGCTCTTAECTACTCCGTCTTCTACTATGAGATCCA  
GAACGCCCCAGAGCAAGCGTGCCACTTGGCCAAGACCGGTTTCGACGACGCCATCGCCGAGCTTGACACC  
CTCAACGAGGACTCCTACAAGGACTCCACGTCATCATGCAGCTCCTCCGCGACAACCTCACGCTTGGA  
CGAGCGACCAGCAGGACGACGATGGCGGCAAGGCAACAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201925 representing NM\_012479  
Red=Cloning site Green=Tags(s)

MVDREQLVQKARLAEQAERYDDMAAMKNVTELSNEERLLSVAYKNVVGARRSSWRVISSIEQKT  
 SADGNEKKIEMVRAYREKIEKELEAVCQDVLSLLDNYLIKNCSETQYESKVFYLMKMGDYRYLAEVATG  
 EKRA TVVESSEKAYSEAHEISKEHMQPTHP IRLGLALNYSVFYIEIQNAPEQACHLAKTAFDDAIAELDT  
 LNEDSYKDSTLIMQLLRDNLTLWTSQQDDGGEGNN

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_012479

**ORF Size:** 741 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:**

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

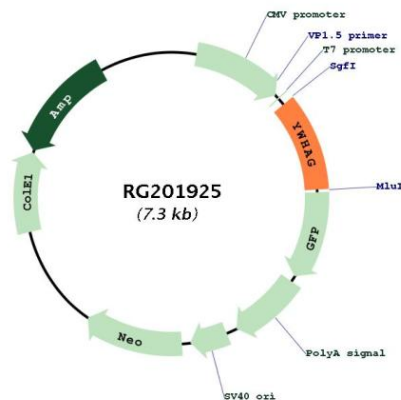
**Domains:** 14-3-3

**Protein Families:** Druggable Genome

**Protein Pathways:** Cell cycle, Neurotrophin signaling pathway, Oocyte meiosis

**Gene Summary:** 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]

## Product images:



Circular map for RG201925