

Product datasheet for **RG208646**

14-3-3 theta (YWHAQ) (NM_006826) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	14-3-3 theta (YWHAQ) (NM_006826) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	14-3-3 theta
Synonyms:	1C5; 14-3-3; HS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208646 representing NM_006826 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAAGACTGAGCTGATCCAGAAGGCCAAGCTGGCCGAGCAGGCCGAGCGCTACGACGACATGGCCA
CCTGCATGAAGGCAGTGACCGAGCAGGGCGCCGAGCTGTCCAACGAGGAGCGCAACCTGCTCTCCGTGGC
CTACAAGAACGTGGTCGGGGCCGAGGTCGGCCTGGAGGGTCATCTCTAGCATCGAGCAGAAGACCGAC
ACCTCCGACAAGAAGTTGCAGCTGATTAAGGACTATCGGGAGAAAGTGGAGTCCGAGCTGAGATCCATCT
GCACCACGGTGTGGAATTGTTGATAAATATTTAATAGCCAATGCAACTAATCCAGAGAGTAAGGTCTT
CTATCTGAAAATGAAGGGTGATTACTTCCGGTACCTTGCTGAAGTTGCGTGTGGTGTATCGAAAACAA
ACGATAGATAATCCCAAGGAGCTTACCAAGAGGCATTTGATATAAGCAAGAAAGAGATGCAACCCACAC
ACCCAATCCGCCTGGGGCTTGCTCTTAACCTTTTCTGTATTTTACTATGAGATTCTTAATAACCCAGAGCT
TGCTTGCACGCTGGCTAAAACGGCTTTTGATGAGGCCATTGCTGAACTTGATACACTGAATGAAGACTCA
TACAAAGACAGCACCTCATCATGCAGTTGCTTAGAGACAACCTAACACTTTGGACATCAGACAGTGCAG
GAGAAGAATGTGATGCGGCAGAAGGGGCTGAAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208646 representing NM_006826
 Red=Cloning site Green=Tags(s)

MEKTELIQKAKLAEQAERYDDMATCMKAVTEQGAELSNEERNLLSVAYKNVVGRRSAWRVISSIEQKTD
 TSDKKLQLIKDYREKVESELRSICTTVLELLDKYLIANATNPESKVFYLMKMGDYFRYLAEVACGDDRKQ
 TIDNSQGAYQEAFDISKKEMQPTHPIRLGLALNFSVFYIEILNNPELACTLAKTAFDEAIAELDTLNEDS
 YKDSTLIMQLLRDNLTLWTSDSAGEECDAAEGAEN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006826

ORF Size: 735 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_006826.4](#)

RefSeq Size: 2166 bp

RefSeq ORF: 738 bp

Locus ID: 10971

UniProt ID: [P27348](#)

Cytogenetics: 2p25.1

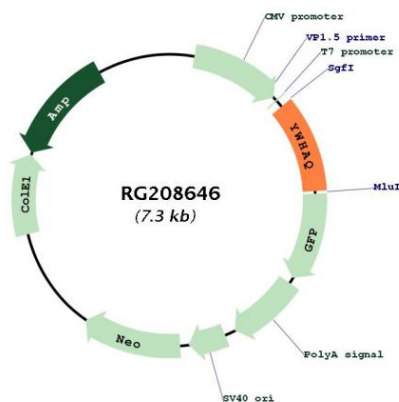
Domains: 14-3-3

Protein Families: Druggable Genome

Protein Pathways: Cell cycle, Neurotrophin signaling pathway, Oocyte meiosis, Pathogenic Escherichia coli infection

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 and rat orthologs. This gene is upregulated in patients with amyotrophic lateral sclerosis. It contains in its 5' UTR a 6 bp tandem repeat sequence which is polymorphic, however, there is no correlation between the repeat number and the disease. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG208646