

Product datasheet for **RG204045**

14-3-3 sigma (SFN) (NM_006142) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	14-3-3 sigma (SFN) (NM_006142) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	14-3-3 sigma
Synonyms:	YWHAS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204045 representing NM_006142 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGAGCCAGTCTGATCCAGAAGGCCAAGCTGGCAGAGCAGGCCGAACGCTATGAGGACATGGCAG
CCTTCATGAAAGGCGCCGTGGAGAAGGGCGAGGAGCTCTCCTGCGAAGAGCGAAACCTGCTCTCAGTAGC
CTATAAGAACGTGGTGGGCGCCAGAGGGCTGCCTGGAGGGTGTGTCCAGTATTGAGCAGAAAAGCAAC
GAGGAGGGCTCGGAGGAGAAGGGGCCGAGGTGCGTGAGTACCGGGAGAAGGTGGAGACTGAGCTCCAGG
GCGTGTGCGACACCGTGTGGCCTGTGGACAGCCACCTCATCAAGGAGGCCGGGACGCCGAGAGCCG
GGTCTTCTACCTGAAGATGAAGGGTGACTACTACCGCTACCTGGCCGAGGTGGCCACCGGTGACGACAAG
AAGCGCATCATTGACTCAGCCCGGTGAGCCTACCAGGAGGCCATGGACATCAGCAAGAAGGAGATGCCGC
CCACCAACCCATCCGCCTGGCCTGGCCCTGAACTTTCCGTCTTCCACTACGAGATCGCCAACAGCCC
CGAGGAGGCCATCTCTGGCCAAGACCACTTTTCGACGAGGCCATGGCTGATCTGCACACCTCAGCGAG
GACTCCTACAAAGACAGCACCTCATCATGCAGCTGTGCGAGACAACCTGACACTGTGGACGGCCGACA
ACGCCGGGAAGAGGGGGCGAGGCTCCCCAGGAGCCCCAGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204045 representing NM_006142
 Red=Cloning site Green=Tags(s)

MERASLIQKAKLAEQAERYEDMAAFMKGAVEKGEELSCEERNLLSVAYKNVVGQRAAWRVLSSIEQKSN
 EEGSEEKGPEVREYREKVELQGVCDTVLGLLDShLIKEAGDAESRVFYLKMKGDYYRYLAEVATGDDK
 KRIIDSARSAYQEAMDISKKEMPPTNPIRLGLALNFSVFHYEIANSPPEAISLAKTTFFDEAMADLHLLSE
 DSYKDSTLIMQLLRDNLTLWTADNAGEEGEAPQEPQS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006142

ORF Size: 744 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_006142.5](#)

RefSeq Size: 1336 bp

RefSeq ORF: 747 bp

Locus ID: 2810

UniProt ID: [P31947](#)

Cytogenetics: 1p36.11

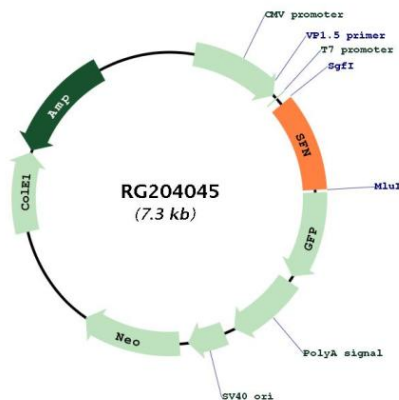
Domains: 14-3-3

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Cell cycle, p53 signaling pathway

Gene Summary: This gene encodes a cell cycle checkpoint protein. The encoded protein binds to translation and initiation factors and functions as a regulator of mitotic translation. In response to DNA damage this protein plays a role in preventing DNA errors during mitosis. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RG204045