

OriGene Technologies, Inc.

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Product datasheet for RC204045

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: | Myc-DDK |
| Symbol: | 14-3-3 sigma |
| Synonyms: | YWHAS |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | <pre>>RC204045 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre> |
| | TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C |

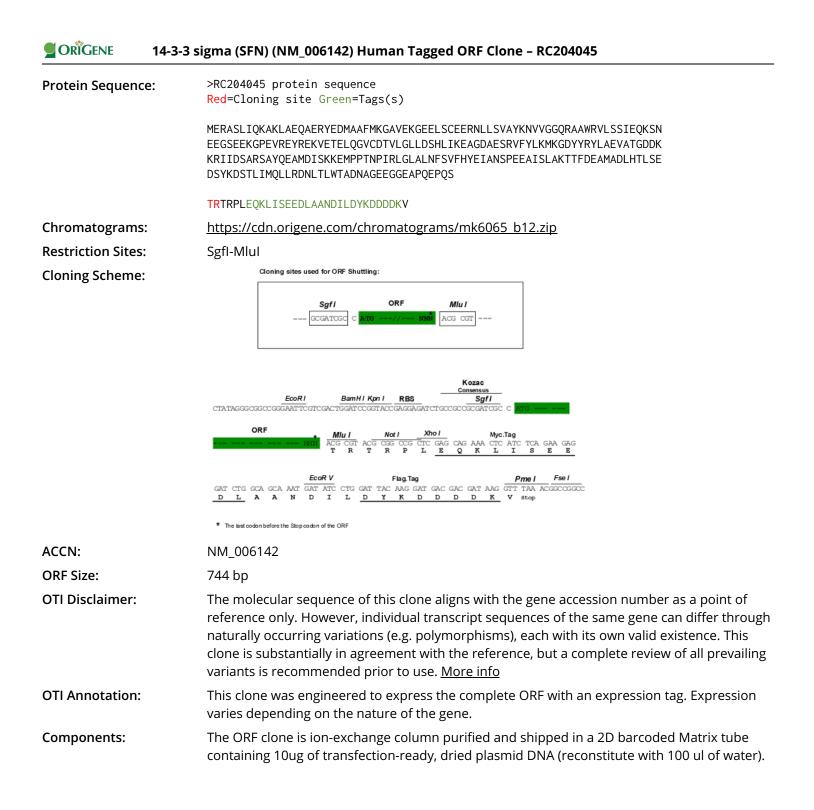
ATGGAGAGAGCCAGTCTGATCCAGAAGGCCAAGCTGGCAGAGCAGGCCGAACGCTATGAGGACATGGCAG CCTTCATGAAAGGCGCCGTGGAGAAGGGCGAGGAGCTCTCCTGCGAAGAGCGAAACCTGCTCTCAGTAGC CTATAAGAACGTGGTGGGCGGCCAGAGGGCTGCCTGGAGGGGGCGCAGAGCGAGAAAGCAAC GAGGAGGGCTCGGAGGAGAAGGGGCCCGAGGTGCGTGAGTACCGGGAGAAGGTGGAGACTGAGCTCCAGG GCGTGTGCGAACACCGTGCTGGGCCTGCTGGACAGCCACCTCATCAAGGAGGCCGGGGACGCCGAGAGCCG GGTCTTCTACCTGAAGATGAAGGGTGACTACTACCGCTACCTGGCCGAGGTGGCCACCGGTGACGACAAG AAGCGCATCATTGACTCAGCCCGGTCAGCCTACCAGGAGGCCATGGACATCAGCAAGAAGGAGATGCCGC CCACCAACCCCATCCGCCTGGGCCTGGCCCTGAACTTTTCCGTCTTCCACTACGAGAAGGAGAGCCC CGAGGAGGCCATCTCTCTGGCCAAGACCACTTTCGACGAGGCCATGGCTGACCACCCCCAGCGC GACTCCTACAAAGACAGCACCCTCATCATGCAGGCGCATGGCTGACCACCGCCAGAG GACTCCTACAAAGACAGCACCCTCATCATGCAGCTGCTGCGAGACAACCTGACACTGGACGCCGACA AACGCCGGGAAGAGCGGGGGCGAGGCTCCCCCAGGAGCCCCAGAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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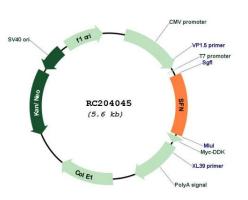
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ORIGENE 14-3-3 sigma (SFN) (NM_006142) Human Tagged ORF Clone – RC204045

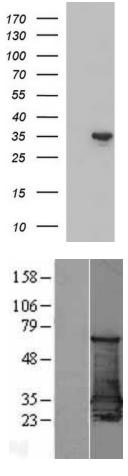
| Reconstitution Method: | Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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: | <u>NM 006142.5</u> |
| RefSeq Size: | 1336 bp |
| RefSeq ORF: | 747 bp |
| Locus ID: | 2810 |
| UniProt ID: | <u>P31947</u> |
| Cytogenetics: | 1p36.11 |
| Domains: | 14-3-3 |
| Protein Families: | Druggable Genome, Secreted Protein |
| Protein Pathways: | Cell cycle, p53 signaling pathway |
| MW: | 27.8 kDa |
| 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:



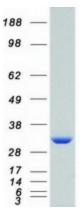
Circular map for RC204045



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SFN (Cat# RC204045, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SFN (Cat# [TA590217]). Positive lysates [LY401850] (100ug) and [LC401850] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY401850]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204045 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified SFN protein (Cat# [TP304045]). The protein was produced from HEK293T cells transfected with SFN cDNA clone (Cat# RC204045) using MegaTran 2.0 (Cat# [TT210002]).

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