

Product datasheet for **RG201386**

SESN2 (NM_031459) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SESN2 (NM_031459) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SESN2
Synonyms:	HI95; SES2; SEST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG201386 representing NM_031459
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCGTGGCGACTCCGAGTGCCGCGCAGAGCTCAAGGACTACCTGCGGTTCCGCCCGGGCGGCGTCCG
 GCGACTCGGGCCCGGAGAGGAGCAGAGGGAGAGCCGGGCTCGGCGAGGCCCTCGAGGGCCAGCGCCTT
 CATCCCGTGGAGGAGTCTTCGGGAGGGGGCTGAGAGCCTCGAGCAGCACCTGGGGCTGGAGGCACTG
 ATGTCCTCTGGGCGAGTAGACAACCTGGCAGTGGTATGGGCTGCACCCTGACTACTTTACCAGCTTCT
 GGGCCTGCACTACCTGCTGCTGCACACGGATGGTCCCTTGCCAGCTCCTGGCGCCACTACATTGCCAT
 CATGGCTGCCGCCGCCATCAGTGTCTTACCTGGTAGGCTCCACATGGCCGAGTTTCTGCAGACTGGT
 GGTGACCCTGAGTGGCTGCTGGGCTCCACGGGCCCCGAGAAGCTGCGCAAACCTCAGCGAGATCAACA
 AGTTGCTGGCGCATCGGCATGGCTCATACCAAGGAACACATCCAGGCCTTGCTGAAGACCGGCGAGCA
 CACTTGGTCCCTGGCCGAGCTCATTAGGCTCTGGTCTGCTCACCCACTGCCACTCGCTCTCTCTCTTC
 GTGTTTGCTGTGGCATCCTCCCTGAGGGGGATGCAGATGGCAGCCCTGCCCCAGGCACCTACACCCC
 CTAGTGAACAGAGCAGCCCCCAAGCAGGGACCCGTTGAACAACCTCTGGGGGCTTTGAGTCTGCCCGCA
 CGTGGAGGCGCTGATGGAGCGCATGCAGCAGCTGCAGGAGAGCCTGCTGCGGGATGAGGGGACGTCACG
 GAGGAGATGGAGAGCCGCTTTGAGCTGGAGAAGTCAGAGAGCCTGCTGGTACCCCTCAGCTGACATCC
 TGGAGCCCTCTCCACACCAGACATGCTGTGCTTTGTGGAAGACCCTACTTTGCGATATGAGGACTTAC
 TCGGAGAGGGGCTCAGGCACCCCTACCTCCGGGCCAGGATTATACCTGGGAAGACCATGGCTACTCG
 CTGATCCAGCGGCTTTACCCTGAGGGTGGGAGCTGCTGGATGAGAAGTCCAGGCAGCCTATAGCCTCA
 CCTACAATACCATCGCCATGCACAGTGGTGGACACCTCCGTGCTCCGAGGCCATCTGGAACATAT
 CCACTGCGTCTTTGGCATCAGATATGATGACTATGATTATGGGGAGGTGAACACGCTCCTGGAGCGGAAC
 CTAAGGTCTATATCAAGACAGTGGCCTGCTACCCAGAGAAGACCACCCGAAGAATGTACAACTCTTCT
 GGAGGCACTTCCGCCACTCAGAGAAGGTCCACGTGAACCTGCTGCTCCTGGAGGCGCGCATGCAAGCCG
 TCTGCTGTACGCCCTCCGTGCCATCACCCGCTACATGACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201386 representing NM_031459
 Red=Cloning site Green=Tags(s)

MIVADSECRALKDYLRFAPGGVGDSPGEEQRESRARRGPRGPSAIPVEEVLREGAESLEQHLGLEAL
 MSSGRVDNLAVVMGLHPDYFTSFWRHLHYLLLHTDGPLASSWRHYIAIMAAARHQCSYLVGSHMAEFLQTG
 GDPEWLLGLHRAPEKLRKLSEINKLLAHRPWLITKEHIQALLKTGEHTWSLAELIQALVLLTHCHSLSSF
 VFGCGILPEGDADGSPAPQAPTPPSEQSSPPSRDPLNNSGGFESARDVEALMERMQQLQESLLRDEGTSQ
 EEMESRFELEKSESLLVTPSADILEPSHPDMLCFVEDPTFGYEDFTRRGAQAPPTFRAQDYTWEDHGYS
 LIQRLYPEGGQLLDEKFAAYSLTYNTIAMHSGVDTSVLRRAIWNYYIHCVFIRYDDYDYGEVNLQLLERN
 LKVIYIKTVACYPEKTRRMYNLFWRHFRHSEKVVHVNLLLLLEARMQAALLYALRAITRYMT

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_031459

ORF Size: 1440 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_031459.5](#)

RefSeq Size: 3503 bp

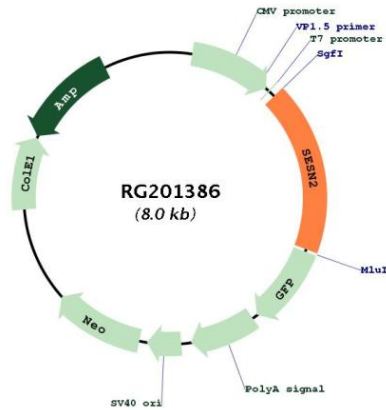
RefSeq ORF: 1443 bp

Locus ID: 83667

UniProt ID: [P58004](#)

Cytogenetics: 1p35.3
Domains: PA26
Protein Pathways: p53 signaling pathway
Gene Summary: This gene encodes a member of the sestrin family of PA26-related proteins. The encoded protein may function in the regulation of cell growth and survival. This protein may be involved in cellular response to different stress conditions. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201386