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Product datasheet for SC330943

SESN3 (NM_001271594) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SESN3 (NM_001271594) Human Untagged Clone
Tag:	Tag Free
Symbol:	SESN3
Synonyms:	SEST3
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC330943 representing NM_001271594. Blue=Insert sequence Red=Cloning site Green=Tag(s) ATGAGTTTACACACTCAGTACCTGGAGTCTTTCTTGCGGAGCCAGTTTTACATGTTGCGCATGGATGGT CCCCTTCCTCTACCATACAGGCACTATATTGCAATAATGAAACTTGTCAAAACTGGAGAAAATAATTGG TCTCTGCCTGAACTGGTACATGCTGTGGTCCTCCTGGCACATTATCATGCTTTGGCAAGCTTTGTTTTT GGTAGTGGTATCAATCCAGAGAGAGATCCAGAAATCTCCAATGGATTCAGGCTAATATCAGTCAACAAT TTCTGCGTTTGTGATCTTGCTAATGACAACAACATAGAGAATGCATCTCTTTCAGGCAGCAACTTTGGG ATTGTGGATTCTCTAAGTGAGCTAGAGGCCTTAATGGAAAGGATGAAAAGACTTCAAGAAGAAAGGGAA GATGAAGAGGCGTCTCAAGAAGAAATGAGCACTCGTTTTGAAAAGGAGAAGAAAGAAAGTCTTTTTGTG GTCTCTGGAGATACTTTTCATTCATTTCCTCATTCAGATTTTGAGGATGACATGATTATAACATCTGAT GTCTCTCGATATATTGAAGACCCTGGTTTTGGGTATGAAGACTTTGCCAGACGAGGAGAAGAGCATTTG CCAACATTCCGAGCTCAGGACTATACCTGGGAAAATCATGGGTTCTCCCTGGTGAACAGACTTTATTCT GACATTGGACATCTTCTTGATGAAAAGTTTCGGATGGTCTACAATCTCACATATAACACTATGGCCACC CATGAGGATGTTGACACAACCATGCTGCGCAGAGCTTTATTTAACTATGTTCACTGTATGTTTGGAATC AGGTATGATGACTATGATTATGGAGAAGTTAATCAATTACTTGAAAGAAGCCTGAAGGTTTACATTAAG ACAGTGACCTGCTATCCTGAGAGAACTACAAAACGCATGTATGATAGTTACTGGCGGCAGTTCAAACAC TCAGAAAAAGTTCATGTCAATCTACTTTTAATGGAAGCACGAATGCAAGCTGAACTTCTTTATGCTCTT CGTGCCATAACTCGGCATTTGACCTGA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001271594
Insert Size:	1062 bp

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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_001271594.1

RefSeq Size: 9345 bp

RefSeq ORF: 1062 bp

Locus ID: 143686

UniProt ID: P58005

Cytogenetics: 11q21

Protein Pathways: p53 signaling pathway

MW: 41.5 kDa

Gene Summary: This gene encodes a member of the sestrin family of stress-induced proteins. The encoded protein reduces the levels of intracellular reactive oxygen species induced by activated Ras downstream of RAC-alpha serine/threonine-protein kinase (Akt) and FoxO transcription factor. The protein is required for normal regulation of blood glucose, insulin resistance and plays a role in lipid storage in obesity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2012]
Transcript Variant: This variant (2) differs in the 5' UTR and uses an alternate in-frame splice site compared to variant 1. It encodes a shorter protein (isoform 2) compared to isoform 1.
Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.