

Product datasheet for **RG219818**

SESN3 (NM_144665) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SESN3 (NM_144665) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SESN3
Synonyms:	SEST3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219818 representing NM_144665
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCGGGCGCGCCGAGCCCGTCGGCCCGCCAACCTACCTGCTCTGTACCAACTGCCGAAAGTGC
 TCGGGAAGGATAAAAAGAATCAGAGTGTCTCAACCCCTTGACAAGAGGACCAAGTGCCTTTATTCCAGAGAA
 GGAAGTTGTCCAAGCAAACACAGTGGATGAACGTACTAATCTTCTGTGGAAGAATACTCTACATCCGGT
 CGTCTGGACAACATCACACAGGTCATGAGTTTACACACTCAGTACCTGGAGTCTTTCTTGGCAGCCAGT
 TTTACATGTTGCGCATGGATGGTCCCCTTCTCTACCATACAGGCACTATATTGCAATAATGGCTGCAGC
 TAGACATCAGTGTCTTACTTAATAAACATGCATGTGGATGAATTTTTAAAGACTGGAGGTATTGCTGAG
 TGGTTGAATGGTTTGAATATGTGCCACAAAGACTGAAAAATCTAATGAAATTAATAAGCTGCTAGCAC
 ATCGACCTTGGCTGATCACAAAAGAGCACATTAGAAAATGTCAAACTGGAGAAAATAATTGGTCTCT
 GCCTGAACCTGGTACATGTGTGGTCTCCTGGCACATTATCATGCTTTGGCAAGCTTTGTTTTTGGTGT
 GGTATCAATCCAGAGAGAGATCCAGAAATCTCCAATGGATTCAGGCTAATATCAGTCAACAATTTCTGCG
 TTTGTGATCTTGCTAATGACAACAACATAGAGAATGCATCTCTTTTCAGGCAGCAACTTTGGGATTGTGGA
 TTCTCTAAGTGAGCTAGAGGCCCTAATGAAAAGGATGAAAAGACTTCAAGAAGAAAGGGAAGATGAAGAG
 GCGTCTCAAGAAGAAATGAGCACTCGTTTTGAAAAGGAGAAGAAAGAAAGTCTTTTTGTGGTCTCTGGAG
 ATACTTTTCATTCATTTCTCATTAGATTTTGGAGTATGACATGATTATAACATCTGATGTCTCTCGATA
 TATTGAAGACCCTGGTTTTGGGTATGAAGACTTGGCCAGCAGGAGAAGAGCATTGCCAACATTCCGA
 GCTCAGGACTATACCTGGGAAAATCATGGTCTCCCTGGTGAACAGACTTTATTCTGACATTGGACATC
 TTCTTGATGAAAAGTTTCGGATGGTCTACAATCTACATATAACACTATGGCCACCCATGAGGATGTTGAT
 CACAACCATGCTGCGCAGAGCTTTATTTAACTATGTTCACTGTATGTTTGAATCAGGTATGATGACTAT
 GATTATGGAGAAGTTAATCAATTACTTGAAGAAGCCTGAAGTTTTACATTAAGACAGTGACCTGCTATC
 CTGAGAGAACTACAAAACGCATGTATGATAGTTACTGGCGGCAGTTCAAACACTCAGAAAAAGTTCATGT
 CAATCTACTTTTAAATGGAAGCACGAATGCAAGCTGAACCTCTTTATGCTCTTCGTGCCATAACTCGGCAT
 TTGACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG219818 representing NM_144665
 Red=Cloning site Green=Tags(s)

MNRGGGSPSAAANYLLCTNCRKVLKDKRIRVSQPLTRGPSAFIPEKEVVQANTVDERTNFLVEEYSTSG
 RLDNITQVMSLHTQYLESFLRSQFYMLRMDGPLPLPYRHVYIAIMAAARHQCSYLINMHVDFLKTGGIAE
 WLNGLVYVPQRLKNLNEINKLLAHRPWLITKEHIQKLVKTGENNWSLPELVHAVVLLAHYHALASFVFGS
 GINPERDPEISNGFRLISVNNFCVCDLANDNNIENASLSGSNFGIVDSLSELEALMERMKRLQEEREDEE
 ASQEEMSTRFEKEKESLFFVSGDTFHSFPHSDFEDDMIITSDVSRVIEDPGFGYEDFARRGEEHLPTRF
 AQDYTWENHGFSLVNRLYSDIGHLLDEKFRMVYNLTNTMATHEDVDTMLRRALFNVVHCFMFGIRYDDY
 DYGEVNQLLERSLKVYIKVTVCYPERTTKRMYSYWRQFKHSEKVHVNLLLMEARMQAELLYALRAITRH
 LT

TRTRPLE - GFP Tag - V

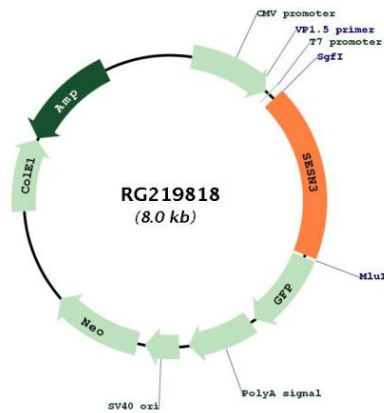
Restriction Sites:

Sgfl-Mlul

RefSeq Size: 1987 bp
RefSeq ORF: 1479 bp
Locus ID: 143686
UniProt ID: [P58005](#)
Cytogenetics: 11q21
Domains: PA26
Protein Pathways: p53 signaling pathway

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]

Product images:



Circular map for RG219818