

Product datasheet for RG232107

SIRT5 (NM 001242827) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SIRT5 (NM_001242827) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: SIRT5

Synonyms: SIR2L5

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG232107 representing NM_001242827
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGGGAGCAAGGAGCCCAACGCCGGGCACCGCGCCATAGCCGAGTGTGAGACCCGGCTGGGCAAGCAGG
GCCGGCGAGTCGTGGTCATCACCCAGAACATCGATGAGCTGCACCGCAAGGCTGGCACCAAGAACCTTCT
GGAGATCCATGGTAGCTTATTTAAAACTCGATGTACCTCTTGTGGAGTTGTGGCTGAGAATTACAAGAGT
CCAATTTGTCCAGCTTTATCAGGAAAAAGGTGCTCCAGAACCTGGAACTCAAGATGCCAGCATCCCAGTTG
AGAAACTTCCCCGGTGTGAAGAGGCAGGCTGCGGGGGCTTGCTGCGACCTCACGTCGTGTGTTTGGAGA
AAACCTGGATCCTGCCATTCTGGAGGAGGTTGACAGAAGAGCCCCCACTGTGATTTATGTCTAGTGGTG
GGCACTTCCTCTGTGGTGTACCCAGCAGCCATGTTTTGCCCCCCAGGTGGCTGCCAGGGGCCTGCCAGTGG
CTGAATTTAACACGGAGACCACCCCAGCTACGAACAGATTCAGGTTTCATTTCCAGGGACCCTGTGGAAC

GACTCTTCCTGAAGCCCTTGCCTGTCATGAAAATGAAACTGTTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG232107 representing NM_001242827

Red=Cloning site Green=Tags(s)

MGSKEPNAGHRAIAECETRLGKQGRRVVVITQNIDELHRKAGTKNLLEIHGSLFKTRCTSCGVVAENYKS PICPALSGKGAPEPGTQDASIPVEKLPRCEEAGCGGLLRPHVVWFGENLDPAILEEVDRELAHCDLCLVV

GTSSVVYPAAMFAPQVAARGVPVAEFNTETTPATNRFRFHFQGPCGTTLPEALACHENETVS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



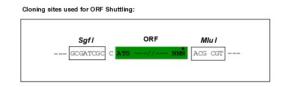
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

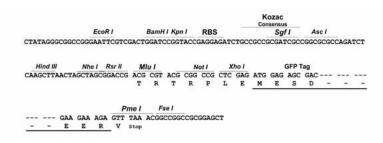
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

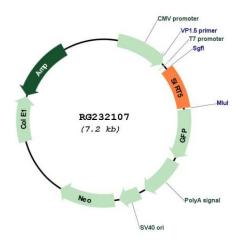


Cloning Scheme:





Plasmid Map:



ACCN: NM_001242827

ORF Size: 606 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: <u>NM 001242827.1</u>, <u>NP 001229756.1</u>

RefSeq Size: 4382 bp
RefSeq ORF: 609 bp
Locus ID: 23408
UniProt ID: Q9NXA8
Cytogenetics: 6p23

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2

protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. The protein encoded by this gene is included in class III of the sirtuin family. Alternative splicing of this gene results in

multiple transcript variants. [provided by RefSeq, Jul 2010]