

Product datasheet for **RG200189**

SIRT5 (NM_012241) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | SIRT5 (NM_012241) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | SIRT5 |
| Synonyms: | SIR2L5 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG200189 representing NM_012241 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGACCTCTCCAGATTGTCCCAAGTCGATTGATTTCCAGCTATATTGTGGCCTGAAGCCTCCAGCGT
CCACACGAAACCAGATTTGCCTGAAAATGGCTCGGCCAAGTTCAAGTATGGCAGATTTTCGAAAATTTTT
TGCAAAGCAAAGCACATAGTCATCATCTCAGGAGCTGGTGTAGTGCAGAAAGTGGTGTCCGACCTTC
AGAGGAGCTGGAGTTATTGGAGAAAATGGCAAGCCAGGACCTGGCGACTCCCCTGGCCTTTGCCACA
ACCCGTCGCGGTGTGGGAGTTCTACCACTACCGCGGGAGGTCATGGGGAGCAAGGAGCCCAACGCCGG
GCACCGCGCCATAGCCGAGTGTGAGACCCGGCTGGGCAAGCAGGGCCGGCGAGTCGTGGTATCACCCAG
AACATCGATGAGCTGCACCGCAAGGCTGGCACCAAGAACCTTCTGGAGATCCATGGTAGCTTATTTAAAA
CTCGATGTACCTCTTGTGGAGTTGTGGCTGAGAATTACAAGAGTCCAATTTGTCCAGCTTTATCAGGAAA
AGGTGCTCCAGAACCTGGAACCTCAAGATGCCAGCATCCCAGTTGAGAAAACCTCCCGGTGTGAAGAGGCA
GGCTGCGGGGGCTTGTGCGACCTCATGTCGTGTGTTTGGAGAAAACCTGGATCCTGCCATTCTGGAGG
AGGTTGACAGAGAGCTCGCCACTGTGATTTATGTCTAGTGGTGGCACTTCTCTGTGGTGTACCCAGC
AGCCATGTTTCCCCCAGGTGGCTGCCAGGGCGTGCCAGTGGCTGAATTTAACACGGAGACCACCCCA
GCTACGAACAGATTCAGTTTTCATTTCCAGGGACCCTGTGGAACGACTCTTCTGAAGCCCTTGCCTGTC
ATGAAAATGAAACTGTTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200189 representing NM_012241
 Red=Cloning site Green=Tags(s)

MRPLQIVPSRLISQLYCGLKPPASTRNQICLKMARPSSSMADFRKFFAKAKHIVIIISGAGVSAESGVPTF
 RGAGGYWRKWQAQDLATPLAFAHNPSRVWEFYHYRREVMGSKEPNAGHRAIAECETRLGKQGRVVITQ
 NIDELHRKAGTKNLLIEHGSLFKTRCTSCGVVAENYKSPICPALSGKGAPEPGTQDASIPVEKLPRCEEA
 GCGGLLRPHVWFGENLDPAILLEEVDRELAHCDLCLVVGTSVVVYPAAMFAPQVAARGVPAEFNTETTP
 ATNRFRFHFQGPCGTTLPEALACHENETVS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012241

ORF Size: 930 bp

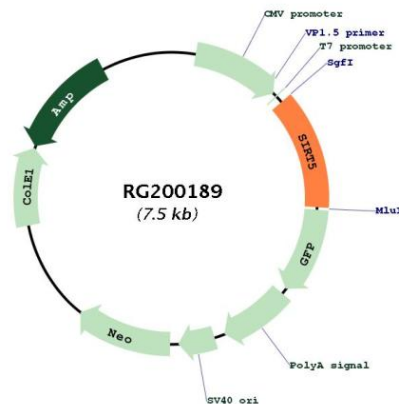
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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| 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: | <ol style="list-style-type: none"> 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_012241.2, NP_036373.1</u> |
| RefSeq Size: | 1670 bp |
| RefSeq ORF: | 933 bp |
| Locus ID: | 23408 |
| UniProt ID: | <u>Q9NXA8</u> |
| 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] |

Product images:



Circular map for RG200189