

Product datasheet for RC231136

SIRT5 (NM_001193267) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | SIRT5 (NM_001193267) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | SIRT5 |
| Synonyms: | SIR2L5 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC231136 representing NM_001193267 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGACCTCTCCAGATTGTCCCAAGTCGATTGATTTCCAGCTATATTGTGGCCTGAAGCCTCCAGCGT
CCACACGAAACCAGATTTGCCTGAAAATGGCTCGGCCAAGTTCAAGTATGGCAGATTTTCGAAAATTTTT
TGCAAAGCAAAGCACATAGTCATCATCTCAGGAGCTGGTGTAGTGCAGAAAGTGGTGTCCGACCTTC
AGAGGAGCTGGAGTTATTGGAGAAAATGGCAAGCCAGGACCTGGCGACTCCCCTGGCCTTTGCCACA
ACCCGTCCGGGTGTGGGAGTTCTACCACTACCGCGGGAGGTCATGGGGAGCAAGGAGCCCAACGCCGG
GCACCGCGCCATAGCCGAGTGTGAGACCCGGCTGGGCAAGCAGGGCCGGCGAGTCGTGGTATCACCCAG
AACATCGATGAGCTGCACCGCAAGGCTGGCACCAAGAACCTTCTGGAGATCCATGGTAGCTTATTTAAAA
CTCGATGTACCTCTTGTGGAGTTGTGGCTGAGAATTACAAGAGTCCAATTTGTCCAGCTTATCAGGAAA
AGGGTGTGAAGAGGCAGGCTGCGGGGGCTTGTGCGACCTCACGTCGTGTGGTTTGGAGAAAACCTGGAT
CCTGCCATTCTGGAGGAGTTGACAGAGAGCTCGCCACTGTGATTTATGTCTAGTGGTGGGCACTTCT
CTGTGGTGTACCCAGCAGCCATGTTTGCCTCCAGGTGGCTGCCAGGGCGTGCCAGTGGCTGAATTTAA
CACGGAGACCACCCAGCTACGAACAGATTGAGTTTCATTTCCAGGGACCCTGTGGAACGACTCTTCT
GAAGCCCTTGCTGTGATGAAAATGAAACTGTTTCT

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC231136 representing NM_001193267
Red=Cloning site Green=Tags(s)

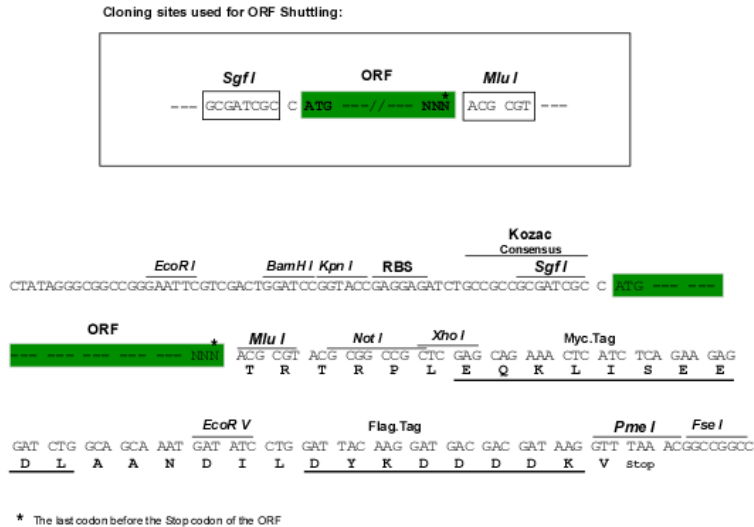
MRPLQIVPSRLISQLYCGLKPPASTRNQICLKMARPSSSMADFRKFFAKAKHIVIISGAGVSAESGVPTF
 RGAGGYWRKWQAQDLATPLAFAHNPSRVWEFYHYRREVMGSKEPNAGHRAIAECETRLGKQGRVVITQ
 NIDELHRKAGTKNLLIEHGSLFKTRCTSCGVVAENYKSPICPALSGKGCEEAGCGLLRPHVWVWVGENLD
 PAILEEVDRELAHCDLCLVVGTSSVVYPAMFAPQVAARGVPVAEFNTETTPATNRFHFQGPCGTTLP
 EALACHENETVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8050_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001193267

ORF Size: 876 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_001193267.2](#)

RefSeq ORF: 879 bp

Locus ID: 23408

UniProt ID: [Q9NXA8](#)

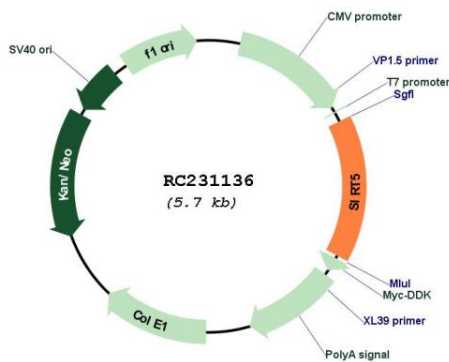
Cytogenetics: 6p23

Protein Families: Druggable Genome, Transcription Factors

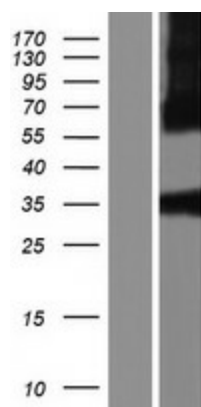
MW: 32.4 kDa

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 RC231136



Western blot validation of overexpression lysate (Cat# [LY434135]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231136 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).