

Product datasheet for RC205658

SIRT7 (NM_016538) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIRT7 (NM_016538) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SIRT7
Synonyms:	SIR2L7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205658 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCCGGGGTCTGAGCCGCTCCGAGCGCAAAGCGCGGAGCGGGTCCGGAGGTTGCGGGAGGAGC
AGCAGAGGGAGCGCCTCCGCCAGGTGTCGCGCATCCTGAGGAAGGCGCGCGGAGCGCAGCGCCGAGGA
GGGCCGGTCTGTCGCGAGAGCGCGGACCTGGTAACGGAGCTGCAGGGCCGGAGCCGGCGCGGAGGGC
CTGAAGCGCGCGCAGGAGGAGGTGTGCGACGCCGAGGAGCTCGGGGGAAGGTCGGGAGCTGGCCA
GCGCCGTCGGAAACGCCAAATACTTGGTCTACACAGGCGCGGAATCAGCACGGCAGCGTCTATCCC
AGACTACCGGGCCCTAATGGAGTGTGGACACTGCTTCAGAAAGGAGAAAGCGTTAGTGCTGCCACCTG
AGCGAGGCCGAGCCAACCTCACCCACATGAGCATCACCCGTCTGCATGAGCAGAAGCTGGTGCAGCATG
TGGTGTCTCAGAACTGTGACGGGCTCCACCTGAGGAGTGGGCTGCCGCGCACGGCCATCTCCGAGCTCCA
CGGGAACATGTACATTGAAGTCTGTACCTCCTGCGTTCACACAGGGAGTACGTGCGGGTGTTCGATGTG
ACGGAGCGCACTGCCCTCCACAGACACCAGACAGGCCGGACCTGCCACAAGTGTGGGACCCAGCTGCGGG
ACACCATTTGTCACTTTGGGGAGAGGGGGACGTTGGGGCAGCCTTGAAGTGGGAAGCGCGCACCGAGGC
TGCCAGCAGAGCAGACACCATCTGTGTCTAGGGTCCAGCCTGAAGGTTCTAAAGAAGTACCCACGCCTC
TGGTGCATGACCAAGCCCCATAGCCGGCGCGGAAGCTTACATCGTGAACCTGCAGTGGACCCCGAAGG
ATGACTGGGCTGCCCTGAAGCTACATGGGAAGTGTGATGACGTCATGCGGCTCCTCATGGCCGAGCTGGG
CTTGAGATCCCCGCTATAGCAGGTGGCAGGATCCCATTTTCTCACTGGCGACTCCCCTGCGTGTGGT
GAAGAAGGCAGCCACAGTCGGAAGTCGCTGTGCAGAAGCAGAGAGGAGGCCCGCCTGGGGACCGGGGTG
CACCGCTTAGCTCGGCCCCATCCTAGGGGGCTGGTTTGGCAGGGGCTGCACAAAACGCACAAAAGGAA
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ACAAGGATGACGACGATAAGGTTTAA

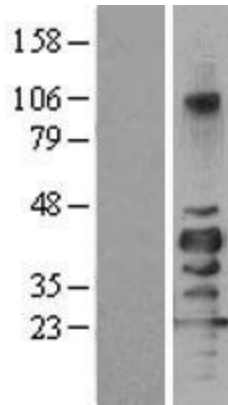


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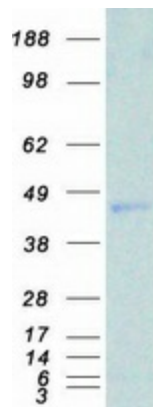
ACCN:	NM_016538
ORF Size:	1200 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid 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.</p> <p>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</p>
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:	<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:	NM_016538.1 , NP_057622.1
RefSeq Size:	1749 bp
RefSeq ORF:	1203 bp
Locus ID:	51547
UniProt ID:	Q9NRC8
Cytogenetics:	17q25.3
Domains:	SIR2
Protein Families:	Druggable Genome, Transcription Factors
MW:	44.9 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 IV of the sirtuin family. [provided by RefSeq, Jul 2008]

Product images:

Western blot validation of overexpression lysate (Cat# [LY402562]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205658 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SIRT7 protein (Cat# [TP305658]). The protein was produced from HEK293T cells transfected with SIRT7 cDNA clone (Cat# RC205658) using MegaTran 2.0 (Cat# [TT210002]).