

Product datasheet for **RG200191**

SIRT2 (NM_030593) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIRT2 (NM_030593) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SIRT2
Synonyms:	SIR2; SIR2L; SIR2L2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200191 representing NM_030593 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACTTCTGCGGAACCTATTCTCCCAGACGCTCAGCCTGGGCAGCCAGAAGGAGCGTCTGCTGGACG
AGCTGACCTTGAAGGGGTGGCCCGGTACATGCAGAGCGAACGCTGTCGAGAGTCATCTGTTTGGTGGG
AGCTGGAATCTCCACATCCGCAGGCATCCCGACTTTCGCTCTCCATCCACCGCCTCTATGACAACTA
GAGAAGTACCATCTTCCCTACCCAGAGGCCATCTTTGAGATCAGCTATTTCAAGAAACATCCGGAACCT
TCTTCGCCCTCGCAAGGAACCTATCCTGGGCAGTTCAAGCCAACCATCTGTCACTACTCATGCGCT
GCTGAAGGACAAGGGGCTACTCCTGCGCTGCTACACGCAGAACATAGATACCCTGGAGCGAATAGCCGGG
CTGGAACAGGAGGACTTGGTGGAGGCGCACGGCCTTCTACACATCACACTGCGTCAGCGCCAGCTGCC
GGCACGAATACCCGCTAAGCTGGATGAAAGAGAAGATCTTCTCTGAGGTGACGCCAAGTGTGAAGACTG
TCAGAGCCTGGTGAAGCCTGATATCGTCTTTTTGGTGAAGGAGCCTCCAGCGCGTTTCTTCTCCTGTATG
CAGTCAGACTTCTGAAGGTGGACCTCCTCCTGGTCATGGGTACCTCCTTGCAGGTGCAGCCCTTTGCC
CCCTCATCAGCAAGGCACCCCTCACCCTCGCTGCTCATCAACAAGGAGAAAGCTGGCCAGTCGGA
CCCTTTCTGGGATGATTATGGGCTCGGAGGAGGCATGGACTTTGACTCCAAGAAGCCCTACAGGGAC
GTGGCCTGGCTGGTGAATGCGACAGGGCTGCCTGGCCCTTGTGAGCTCCTTGGATGGAAGAAGGAGC
TGGAGGACCTTGTCCGGAGGGAGCAGCCAGCATAGATGCCAGTCGGGGCGGGGGTCCCCAACCCAG
CACTTCAGCTTCCCCAAGAAGTCCCCGCCACCTGCCAAGGACGAGGCCAGGACAACAGAGAGGGAGAAA
CCCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200191 representing NM_030593
 Red=Cloning site Green=Tags(s)

MDFLRNLFSQLSLGSQKERLLDELTEGVARYMQSERRVICLVGAGISTASGIPDFRSPSTGLYDNL
 EKYHLPYPEAIFEISYFKKHPEPFFALAKELYPGQFKPTICHYFMRLLKDKGLLLRCYTNIDTLERIA
 LEQEDLVEAHGTFYTHCVSASCRHEYP LSWMKEKIFSEVTPKCEDCQSLVKPDI VFFGESL
 PARFFSCM QSDFLKVDLLLVMGTSLQVQPFASLISKAPLSTPRLLINKEKAGQSDPFLGMIMGLGGMD
 FDSKKAYRD VAWLGECDQGLALAE LLGWKKELEDLVRREHASIDAQSGAGVNPSTSPSPKSP
 PPAKDEARTTEREK PQ

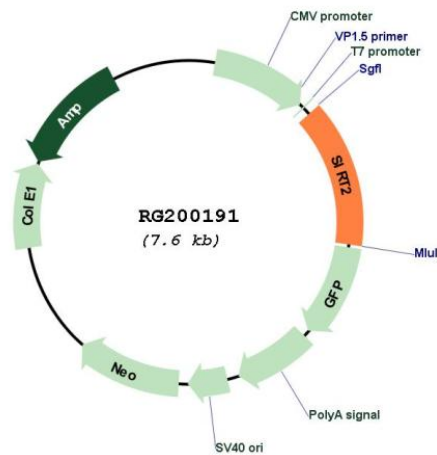
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_030593

ORF Size:	1056 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:	<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_030593.3
RefSeq Size:	1931 bp
RefSeq ORF:	1059 bp
Locus ID:	22933
UniProt ID:	Q8IXJ6
Cytogenetics:	19q13.2
Domains:	SIR2
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 I of the sirtuin family. Several transcript variants are resulted from alternative splicing of this gene. [provided by RefSeq, Jul 2010]