

## Product datasheet for **RG230806**

### **SIRT6 (NM\_001193285) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SIRT6 (NM\_001193285) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SIRT6  
**Synonyms:** SIR2L6  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG230806 representing NM\_001193285  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCGGTGAATTACGCGCGGGGCTGTCGCCGTACGCGGACAAGGGCAAGTGCGGCCTCCCGGAGATCT  
 TCGACCCCCGGAGGAGCTGGAGCGGAAGGTGTGGAACTGGCGAGGCTGGTCTGGCAGTCTTCCAATGT  
 GGTGTTCCACACGGGTGCCGGCATCAGCACTGCCTCTGGCATCCCCGACTTCAGGGGTCCCACGGAGTC  
 TGGACCATGGAGGAGCGAGGTCTGGCCCCAAGTTCGACACCACCTTTGAGAGCGCGCGCCACGCAGA  
 CCCACATGGCGCTGGTGCAGCTGGAGCGGTGGGCTCCTCCGCTTCTGGTCAGCCAGAACGTGGACGG  
 GCTCCATGTGCGCTCAGGCTTCCCCAGGGACAACTGGCAGAGCTCCACGGGAACATGTTTGTGGAAGAA  
 TGTGCCAAGTGTAAAGACGAGTACGTCCGAGACACAGTCGTGGGACCATGGGCCTGAAGGCCACGGGCC  
 GGCTCTGCACCGTGGCTAAGGCAAGGGGCTGCGAGCCTGCAGGAACGCCGACCTGTCCATCACGCTGGG  
 TACATCGCTGCAGATCCGGCCAGCGGGAACCTGCCGCTGGCTACCAAGCGCCGGGGAGGCCGCTGGTC  
 ATCGTCAACCTGCAGCCACCAAGCAGCAGCCCATGCTGACCTCCGCATCCATGGCTACGTTGACGAGG  
 TCATGACCCGGCTCATGAAGCACCTGGGGCTGGAGATCCCCGCTGGGACGGCCCCCGTGTGCTGGAGAG  
 GCGCTGCCACCCCTGCCCGCCCGCCACCCCAAGCTGGAGCCCAAGGAGGAATCTCCACCCCGGATC  
 AACGGCTCTATCCCCGCGGCCCAAGCAGGAGCCCTGCCCCAGCACAACGGCTCAGAGCCCGCCAGCC  
 CCAAACGGGAGCGGCCACCAGCCCTGCCCCACAGACCCCCAAAAGGGTGAAGGCCAAGGCGGTCCC  
 CAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG230806 representing NM\_001193285  
 Red=Cloning site Green=Tags(s)

```
MSVNYAAGLSPYADK GKCGLP EIFDPPEELERK VEWELARLVWQSSNVVFHTGAGISTASGIPDFRGP HGV
WTMEERGLAPKFDTT FESARPTQTHMALVQLERVGLLRFLV SQNVDGLHVRSGFPRDKLAELHGNMFVEE
CAKCKTQYVRD TVVGT MGLKATGR LCTVAKARGLRACRNADLSITLGTSLQIRPSGNLPLATKRRGGRLV
IVNLQPTKHDRHADLR IHGYVDEVMTRLMKHLGLEIPAWDGPVLERALPPLPRPPTPKLEPKESPTRI
NGSIPAGPKQEP CAQHNGSE PASPKRERPTSPAPHRPPKRVKAKAVPS
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001193285

**ORF Size:** 984 bp

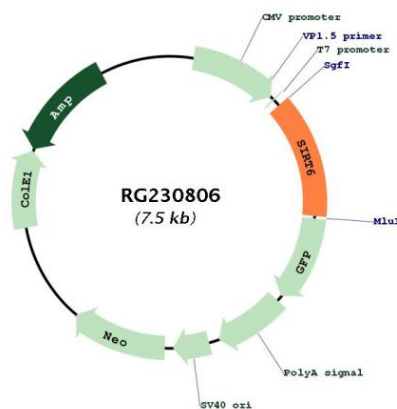
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of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

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001193285.1, NP_001180214.1</u>
<b>RefSeq Size:</b>	1555 bp
<b>RefSeq ORF:</b>	987 bp
<b>Locus ID:</b>	51548
<b>UniProt ID:</b>	<u>Q8N6T7</u>
<b>Cytogenetics:</b>	19p13.3
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	This gene encodes a member of the sirtuin family of NAD-dependent enzymes that are implicated in cellular stress resistance, genomic stability, aging and energy homeostasis. The encoded protein is localized to the nucleus, exhibits ADP-ribosyl transferase and histone deacetylase activities, and plays a role in DNA repair, maintenance of telomeric chromatin, inflammation, lipid and glucose metabolism. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2016]

### Product images:



Circular map for RG230806