OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC310555

SIRT5 (NM_031244) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIRT5 (NM_031244) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIRT5
Synonyms:	SIR2L5
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_031244 edited ATGCGACCTCTCCAGATTGTCCCAAGTCGATTGATTTCCCAGCTATATTGTGGCCTGAAG CCTCCAGCGTCCACACGAAACCAGATTTGCCTGAAAATGGCTCGGCCAAGTTCAAGTATG GCAGATTTTCGAAAGTTTTTTGCAAAAGCAAAGCACATAGTCATCATCTCAGGAGCTGGT GTTAGTGCAGAAAGTGGTGTTCCGACCTTCAGAGGAGCTGGAGGTTATTGGAGAAAATGG CAAGCCCAGGACCTGGCGACTCCCCTGGCCTTTGCCCACAACCCGTCCCGGGTGTGGGAG TTCTACCACTACCGGCGGGAGGTCATGGGGAGCAAGGAGCCCAACGCCGGGCACCGCGCC ATAGCCGAGTGTGAGACCCGGCTGGGCAAGCAGGGCCGGCGAGTCGTGGTCATCACCCAG AACATCGATGAGCTGCACCGCAAGGCTGGCACCAAGAACCTTCTGGAGATCCATGGTAGC TTATTTAAAACTCGATGTACCTCTTGTGGAGTTGTGGCTGAGAATTACAAGAGTCCAATT TGTCCAGCTTTATCAGGAAAAGGTGCTCCAGAACCTGGAACTCAAGATGCCAGCATCCCA GTTGAGAAACTTCCCCGGTGTGAAGAGGCAGGCTGCGGGGGCTTGCTGCGACCTCATGTC GTGTGGTTTGGAGAAAACCTGGATCCTGCCATTCTGGAGGAGGTTGACAGAGAGCTCGCC CACTGTGATTTATGTCTAGTGGTGGGCACTTCCTCTGTGGTGTACCCAGCAGCCATGTTT GCCCCCCAGGTGGCTGCCAGGGGCGTGCCAGTGGCTGAATTTAACACGGAGACCACCCCA GCTACGAACAGATTCAGTCATTTGATCTCCATCTCATCTCTAATTATTATAAAGAATTAA
Restriction Sites:	Please inquire
ACCN:	NM_031244
Insert Size:	900 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_031244.1.
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_031244.1, NP_112534.1
RefSeq Size:	2350 bp
RefSeq ORF:	900 bp
Locus ID:	23408
UniProt ID:	Q9NXA8
Cytogenetics:	6p23
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 III of the sirtuin family. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2010] Transcript Variant: This variant (2) contains a distinct 5' UTR, C-terminal coding region, and 3' UTR as compared to transcript variant 1. This variant encodes isoform 2 which has a distinct and shorter C-terminus than isoform 1.