

Product datasheet for **SC128185**

PGC1 alpha (PPARGC1A) (NM_013261) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PGC1 alpha (PPARGC1A) (NM_013261) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGC1 alpha
Synonyms:	LEM6; PGC-1(alpha); PGC-1alpha; PGC-1v; PGC1; PGC1A; PPARGC1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_013261, the custom clone sequence may differ by one or more nucleotides

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ATGGCGTGGGACATGTGCAACCAGGACTCTGAGTCTGTATGGAGTGACATCGAGTGTGCTGCTCTGGTTG
GTGAAGACCAGCCTCTTTGCCAGATCTTCTGAACTTGATCTTTCTGAACTAGATGTGAACGACTTGGG
TACAGACAGCTTTCTGGGTGGACTCAAGTGGTGCAGTGACCAATCAGAAATAATATCCAATCAGTACAAC
AATGAGCCTTCAAACATATTTGAGAAGATAGATGAAGAGAATGAGGCAAACCTTGCTAGCAGTCTCACAG
AGACACTAGACAGTCTCCTGTGGATGAAGACGGATTGCCCTCATTTGATGCGCTGACAGATGGAGACGT
GACCACTGACAATGAGGCTAGTCCCTCCTCCATGCCTGACGGCACCCCTCCACCCAGGAGGCAGAAAGAG
CCGTCTCTACTTAAGAAGCTCTTACTGGCACCAGCCAACACTCAGCTAAGTTATAATGAATGCAGTGGTC
TCAGTACCCAGAACCATGCAAATCACAATCACAGGATCAGAACAAACCCTGCAATTGTTAAGACTGAGAA
TTCATGGAGCAATAAAGCGAAGAGTATTTGTCAACAGCAAAGCCACAAAGACGTCCTGCTCGGAGCTT
CTCAAATATCTGACCACAAACGATGACCCTCCTCACACCAAACCCACAGAGAACAGAAACAGCAGCAGAG
ACAAATGCACCTCAAAAAGAAGTCCCACACACAGTCGCAGTCACAACACTTACAAGCCAAACCAACAAC
TTTATCTCTTCTGACCCAGAGTCACCAAATGACCCCAAGGTTCCCCATTTGAGAACAAGACTATT
GAACGCACCTTAAGTGTGGAACCTCTGGAACGCAGGCCTAACTCCACCCACCCTCCTCCTATAAAG
CCAACCAAGATAACCCTTTTAGGGCTTCTCAAAGCTGAAGTCTCTTGCAAGACTGTGGTGCCACCACC
ATCAAAGAAGCCAGGTACAGTGAAGTCTTCTGGTACACAAGGCAATAACTCCACCAAGAAAGGGCCGGAG
CAATCCGAGTTGTATGCACAACCTCAGCAAGTCTCAGTCTCACTGGTGGACACGAGGAAAGGAAGACCA
AGCGGCCAGTCTGCGGCTGTTTGGTGACCATGACTATTGCCAGTCAATTAATCCAAAACAGAAATACT
CATTAATATATCACAGGAGCTCCAAGACTCTAGACAAC TAGAAAAAAGATGTCTCCTCTGATTGGCAG
GGCAGATTTGTTCTTCCACAGATTCAGACCAGTGTACCTGAGAGAGACTTTGGAGGCAAGCAAGCAGG
TCTCTCCTTGACGCAAGAAAACAGCTCCAAGACCAGGAAATCCGAGCCGAGCTGAACAAGCACTTCGG
TCATCCCAGTCAAGCTGTTTTGACGACGAAGCAGACAAGACCGGTGAACTGAGGGACAGTGATTTCAAT
AATGAACAATTCTCAAACCTACCTATGTTTATAAATTCAGGACTAGCCATGGATGGCCTGTTTGTGACA
GCGAAGATGAAAGTGATAAACTGAGCTACCCTTGGGATGGCACGCAATCCTATTCAATTGTTCAATGTGTC
TCCTTCTGTTCTTCTTTAACTCTCCATGTAGAGATTCTGTGTCACCACCCAAATCCTTATTTTCTCAA
AGACCCAAAGGATGCGCTCTCGTTCAAGGTCTTTTCTCGACACAGGTCGTGTTCCCGATCACCATATT
CCAGGTCAAGATCAAGGTCTCCAGGCAGTAGATCCTCTTCAAGATCCTGCTATTACTATGAGTCAAGCCA
CTACAGACACCGCACGCCGAAATTCCTTGTATGTGAGATCACGTTCAAGATCGCCCTACAGCCGT
CGGCCAGGTATGACAGCTACGAGGAATATCAGCACGAGAGGCTGAAGAGGGAAGAATATCGCAGAGAGT
ATGAGAAGCGAGAGTCTGAGAGGGCCAAGCAAAGGGAGAGGCAGAGGCAGAAGGCAATTGAAGAGCGCCG
TGTGATTTATGTCGGTAAATCAGACCTGACACAACACGGACAGAAGTGAAGGACCGTTTTGAAGTTTTT
GGTGAAATGAGGAGTGCACAGTAAATCTGCGGGATGATGGAGACAGCTATGGTTTCATTACCTACCGTT
ATACCTGTGATGCTTTTGTCTCTTGAATAAGGATACACTTTGCGCAGGTCAAACGAAACTGACTTTGA
GCTGTACTTTTGTGGACGAAGCAATTTTCAAGTCTAACTATGCAGACCTAGATTCAAACCTCAGATGAC
TTTGACCTGCTTCCACCAAGAGCAAGTATGACTCTCTGGATTTTGTAGTTTACTGAAAGAAGCTCAGA
GAAGCTTGCGCAGGTAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_013261 unedited GGGGGGTTGAAGCTCTTTTCCCCGCCGTTGCCNCAATGGGCGGTAGGCGTGTACGGTGG GNAGTCTATATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTT TTTGCAGCGGCCGGAATTCGGCACGAGGGTTGCCTGCATGAGTGTGTCTGTGTAC TGTGGATTGGAGTTGAAAAGCTTGACTGGCGTCATTCAGGAGCTGGATGGCGTGGGACA TGTGCAACCAGGACTCTGAGTCTGTATGGAGTGACATCGAGTGTGCTGCTCTGGTTGGT AAGACCAGCCTCTTTGCCAGATCTTCCCTGAACCTGATCTTTCTGAACTAGATGTGAACG ACTTGGATACAGACAGCTTTCTGGGTGGACTCAAGTGGTGCAAGTACCAATCAGAAATAA TATCCAATCAGTACAACAATGAGCCTTCAAACATATTTGAGAAGATAGATGAAGAGAATG AGGCAAACCTTGCTAGCAGTCTCACAGAGACACTAGACAGTCTCCCTGTGGATGAAGACG GATTGCCCTCATTTGATGCGCTGACAGATGGAGACGTGACCACTGACAATGAGGCTAGTC CTTCTCCATGCCTGACGGCACCCCTCCACCCAGGAGGCAGAAGAGCCGTCTCTACTTA AGAAGCTTTACTGGCACCAGCCAACACTCAGCTAAGTTATAATGAATGCAGTGGTCTCA GTACCCAGAACCATGCAAATCACAATCACAGGATCAGAACANACCCTGCAATTGTTAAGA CTGAGAATTCATGGAGCAATAAAGCGAAGAGTATTTGTCAACAGCAAAAAGCCACAAGAC GTCCCTGCTCGGAGCTTCTCAAATAT
Restriction Sites:	Please inquire
ACCN:	NM_013261
Insert Size:	2397 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).
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_013261.2 , NP_037393.1
RefSeq Size:	6317 bp
RefSeq ORF:	2397 bp
Locus ID:	10891
UniProt ID:	Q9UBK2
Cytogenetics:	4p15.2
Domains:	RRM
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Adipocytokine signaling pathway, Huntington's disease, Insulin signaling pathway

Gene Summary:

The protein encoded by this gene is a transcriptional coactivator that regulates the genes involved in energy metabolism. This protein interacts with PPARgamma, which permits the interaction of this protein with multiple transcription factors. This protein can interact with, and regulate the activities of, cAMP response element binding protein (CREB) and nuclear respiratory factors (NRFs). It provides a direct link between external physiological stimuli and the regulation of mitochondrial biogenesis, and is a major factor that regulates muscle fiber type determination. This protein may be also involved in controlling blood pressure, regulating cellular cholesterol homeostasis, and the development of obesity. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.