

## Product datasheet for **SC329238**

### PGC1 beta (PPARGC1B) (NM\_001172698) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PGC1 beta (PPARGC1B) (NM_001172698) Human Untagged Clone
Tag:	Tag Free
Symbol:	PGC1 beta
Synonyms:	ERRL1; PERC; PGC-1(beta); PGC1B
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001172698, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGGGAACGACTGCGGCGCGCTGCTGGACGAAGAGCTCTCCTCCTTCTTCTCAAC
TATCTCGCTGACACGCAGGGTGGAGGGTCCGGGAGGAGCAACTCTATGCTGACTTTCCA
GAACTTGACCTCTCCAGCTGGATGCCAGCGACTTTGACTCGGCCACCTGCTTTGGGGAG
CTGCAGTGGTGCCAGAGAACTCAGAGACTGAACCCAACCACTACAGCCCGATGACTCC
GAGCTCTTCCAGATTGACAGTGAGAATGAGGCCCTCCTGGCAGAGCTACCAAGACCCTG
GATGACATCCCTGAAGATGACGTGGGTCTGGCTGCCTTCCAGCCCTGGATGGTGGAGAC
GCTCTATCATGCACCTCAGCTTCGCTGCCCTCATCTGCACCCCAAGCCCTGCCCG
GAGAAGCCCTCGGCCCAAGCCCTGAGGTGGACGAGCTCTACTGGCGGACAGCACCCAA
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CTCACCTCGGCACAGTGCCTGCAGGATCGGGGTCTGCAGCCACCATGCCTCCAGAGT
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TCCCAGGAAGACATGCAGGCGATGGTGCAACTCATACGCTACATGCACACCTACTGCCTC
CCCCAGAGGAAGCTGCCCCACAGACCCCTGAGCCACTCCCCAAGGCCTGCAGCAACCC
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TTCTCCATTCTGAGGGAACCTTCTGGCTCAAGACGTGCTCTGTGATGTGAGCAACCCCTAC
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GAAGAGGAAGAAGAAAAAGAGGAGGAGGAGGTGGGACAGAAAAGGCCAGGCCGAGGC
CTGCCATGGACGAAGCTGGGAGGAAGCTGGAGAGCTCTGTGTGCCCGTGCAGGCTTCT
CGGAGACTGAACCCTGAGCTGGGCCCTGGCTGACATTTGCAGATGAGCCGCTGGTCCCC
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CGGGAGCTGGGCAGCCCCACGGACGAGGACAGTGGCCAAGACCAGCAGCTCTACGGGGA

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CCCCAGATCCCTGCCCTGGAGAGCCCCTGTGAGAGTGGGTGTGGGGACATGGATGAGGAC
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CAAAGCGACCCAACTTTTGGCAAGAAGAGCTTTGAGCAGACCTTGACAGTGGAGCTCTGT
GGCACAGCAGGACTCACCCACCACACCACCGTACAAGCCACAGAGGAGGATCCC
TTCAAACCAGACATCAAGCATAGTCTAGGCAAAGAAATAGCTCTCAGCCTCCCCTCCCCT
GAGGGCCTCTCACTCAAGGCCACCCAGGGGCTGCCACAAGCTGCCAAAGAAGCACCCA
GAGCGAAGTGAGCTCCTGTCCACCTGCGACATGCCACAGCCAGCCAGCCTCCCAGGCT
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CCAGAAGGCGTCTGCAAAGGAAGGTGCTGAGGTCTGGGAGCCGTCTGGGGTTACCTT
GAGGACTGGCCCCAGCAGGGTGCCCTTGGGCTGAGGCACAGGCCCTGGCAGGGAGGAA
GACAGAAGCTGTGATGCTGGCGCCCCACCAAGGACAGCAGCTGCTGAGAGACCATGAG
ATCCGTGCCAGCCTCACAAACACTTTGGGCTGCTGGAGACCGCCTGGAGGAGGAAGAC
CTGGCCTCTGCAAGAGCCCTGAGTATGACTGTCTTTGAAGACAGCAGCAGCAGCAGC
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GATGAAGAAGAGGACTCAGGGGTGAGCCCACTTGTCTGACTGCCCCCTACCAGAGC
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CCCTGCCACTCCTGGTCAACAGCCACTCGAAGGAACCTTCAGATGTGAGAGCAGAGGGCCG
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AAGGGCCTGCCCCAGATACACTGACTACGATTCCAATTCAGAAGAGGCCCTTCTCT
CGGTACAGGAAAAGCAAGTATGAAGCCATGGATTTTACAGCTTACTGAAAGAGGCCAG
CAGAGCCTGCATTGA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_001172698
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_001172698.1](#), [NP\\_001166169.1](#)
- RefSeq Size:** 10525 bp

RefSeq ORF: 2955 bp

Locus ID: 133522

UniProt ID: [Q86YN6](#)

Cytogenetics: 5q32

Protein Families: Druggable Genome, Transcription Factors

**Gene Summary:** The protein encoded by this gene stimulates the activity of several transcription factors and nuclear receptors, including estrogen receptor alpha, nuclear respiratory factor 1, and glucocorticoid receptor. The encoded protein may be involved in fat oxidation, non-oxidative glucose metabolism, and the regulation of energy expenditure. This protein is downregulated in prediabetic and type 2 diabetes mellitus patients. Certain allelic variations in this gene increase the risk of the development of obesity. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to 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.