

## Product datasheet for SC305937

### PGC1 beta (PPARGC1B) (NM\_133263) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PGC1 beta (PPARGC1B) (NM\_133263) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PGC1 beta  
**Synonyms:** ERRL1; PERC; PGC-1(beta); PGC1B  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_133263 edited  
 CCACCTGGCTGCTGCGCTTTACCCCTTGCTGAGGGCTGCGTGAGCTGGTCGCGGGCCCA  
 GACACGGCGCAGGAAAGTGGGTGAGCGACCCCGGCTCCCGGGCGCCGCGCGCCCCG  
 CCCCCGACGTAGCGGCCCTGCGGCAGCCGGGGCTCGAGCTCCGCCCTCCGCCTCCCGC  
 CGGCCTACTCCCTCCTCCCTCCTCCTTGCTCGCTCGCTGGCTCCCTCCCCCGGGCCG  
 GCTCGGCGTTGACTCCGCCGACGCTGCAGCCGCGGCTGGAAGATGGCGGGAACGACTG  
 CGGCGCGTGTGGACGAAGAGCTCTCCTCCTTCTCCTCAACTATCTCGCTGACACGCA  
 GGGTGGAGGGTCCGGGGAGGAGCAACTCTATGCTGACTTCCAGAACTTGACCTCTCCA  
 GCTGGATGCCAGCGACTTTGACTCGGCCACCTGCTTTGGGGAGTGCAGTGGTCCCAGA  
 GAACTCAGAGACTGAACCAACAGTACAGCCCCGATGACTCCGAGCTCTCCAGATTGA  
 CAGTGAGAATGAGGCCCTCCTGGCAGAGCTACCAAGACCCTGGATGACATCCCTGAAGA  
 TGACGTGGGTCTGGCTGCCTTCCAGCCCTGGATGGTGGAGACGCTCTATCATGCACCTC  
 AGCTTCGCTGCCCTCATCTGCACCCCCAGCCCTGCCCGGAGAAGCCCTCGGCCCC  
 AGCCCCTGAGGTGGACGAGCTCTCACTGCTGCAGAAGCTCCTCCTGGCCACATCTACCC  
 AACATCAAGCTCTGACACCCAGAAGGAAGGGACCGCCTGGCGCCAGGCAGGCCTCAGATC  
 TAAAAGTCAACGGCCTTGTTAAGGCGGACAGCACCCAAGACAAGAAGGCTCCCATGAT  
 GCAGTCTCAGAGCCGAAGTTGTACAGAACTACATAAGCACCTCACCTCGGCACAGTGCTG  
 CCTGCAGGATCGGGTCTGCAGCCACATGCCTCCAGAGTCCCCGGCTCCCTGCCAAGGA  
 GGACAAGGAGCCGGGTGAGGACTGCCCGAGCCCCAGCCAGCTCCAGCCTCTCCCAGGA  
 CTCCTAGCTCTGGGCAGGGCAGACCCCGGTGCCCGGTTTCCAGGAAGACATGCAGGC  
 GATGGTGAACCTCATACGCTACATGCACACCTACTGCCTCCCCAGAGGAAGCTGCCCCC  
 ACAGACCCTGAGCCACTCCCCAAGGCCTGCAGCAACCCCTCCCAGCAGGTGAGTCCCG  
 GCCCTGGTCCCGCACCCTCCAAGCCTCCTGGGCTGAGTTCTCCATTCTGAGGGAAGT  
 TCTGGCTCAAGACGTGCTCTGTGATGTCAGCAAACCTACCGTCTGGCCACGCCTGTTTA  
 TGCTCCCTCACACCTCGGTCAAGGCCAGGCCCCCAAGACAGTCAGGCCTCCCTGG  
 TCGCCCGTCTCGGTGGAGGAGTAAGGATCGCAGCTTACCCAAGAGCACCGGGCCAG  
 ACCAAGCCTGCGCCACTGCGGCTGGAGGTGAAAAGGGAGGTCCGCCGGCTGCCAGACT



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GCAGCAGCAGGAGGAGGAAGACGAGGAAGAAGAGGAGGAGGAAGAGGAAGAAGAAAAAGA  
 GGAGGAGGAGGAGTGGGGCAGGAAAAGGCCAGGCCAGGCCTGCCATGGACGAAGCTGGG  
 GAGGAAGCTGGAGAGCTCTGTGTGCCCCGTGCGGCGTTCTCGGAGACTGAACCCTGAGCT  
 GGGCCCCGTGGTGACATTTGAGATGAGCCGCTGGTCCCCCTCGGAGCCCCAAGGTGCTCT  
 GCCCTCACTGTGCCTGGTCCCAAGGCCTACGACGTAGAGCGGGAGCTGGGCAGCCCCAC  
 GGACGAGGACAGTGGCCAAGACCAGCAGCTCCTACGGGGACCCAGATCCCTGCCCTGGA  
 GAGCCCCGTGTGAGAGTGGGTGTGGGGACATGGATGAGGACCCAGCTGCCCGCAGCTCCC  
 TCCCAGAGACTCTCCAGGTGCCTCATGCTGGCCTTGTACAAAAGCGACCCAACCTTTTGG  
 CAAGAAGAGCTTTGAGCAGACCTTGACAGTGGAGCTCTGTGGCACAGCAGGACTACCCCC  
 ACCCACCACACCACCGTACAAGCCACAGAGGAGGATCCCTTCAAACCAGACATCAAGCA  
 TAGTCTAGGCAAAGAAATAGCTCTCAGCCTCCCCCTCCCCCTGAGGGCCTCTCACTCAAGGC  
 CACCCCAGGGGTGCCACAAGCTGCCAAAGAAGCACCCAGAGCGAAGTGAAGCTCCTGTC  
 CCACCTGCGACATGCCACAGCCAGCCAGCCTCCAGGCTGGCCAGAAGCGTCCCTTCTC  
 CTGTTCCCTTTGGAGACCATGACTACTGCCAGGTGCTCCGACCAGAAGGCGTCTGCAAAAG  
 GAAGGTGCTGAGTCTGGGAGCCGTCTGGGGTTCACCTTGAGGACTGGCCCCAGCAGGG  
 TGCCCCCTTGGGCTGAGGCACAGGCCCTGGCAGGGAGGAAGACAGAAGCTGTGATGCTGG  
 TGCCCCACCCAAGGACAGCACGCTGCTGAGAGACCATGAGATCCGTGCTAGCCTACCAA  
 ACACTTTGGGCTGCTGGAGACCGCCCTGGAGGAGGAAGACCTGGCCTCCTGCAAGAGCCC  
 TGAGTATGACACTGTCTTTGAAGACAGCAGCAGCAGCAGCGGCGAGAGCAGCTTCTCCTCC  
 AGAGGAGGAAGAGGAAGAAGGGGAGGAGGAGGAGGAGGACGATGAAGAAGAGGACTCAGG  
 GGTGAGCCCCACTTGCTTGACCACTGCCCTACCAGAGCCCAAGCAAGGCCAACCG  
 GCAGCTCTGTTCCCGCAGCCGCTCAAGCTCTGGCTTTACCCCTGCCACTCCTGGTCACC  
 AGCCACTCGAAGGAACCTCAGATGTGAGAGCAGAGGGCCGTGTTGAGAGCAAGCCCAAG  
 CATCCGCGCAGCCAGGAAGCGGCGGAAAAGGCCATTGGGGAAGGCCGCGTGGTGTACAT  
 TCAAAATCTCTCCAGCGACATGAGCTCCCGAGAGCTGAAGAGGCGCTTTGAAGTGTTTGG  
 TGAGATTGAGGAGTGGGAGGTGCTGACAAGAAATAGGAGAGGCGAGAAGTACGGCTTCAT  
 CACCTACCGGTGTTCTGAGCAGCGGCCCTCTCTTTGACAAAGGGCGCTGCCCTGAGGAA  
 GCGCAACGAGCCCTCCTCCAGCTGAGCTACGGAGGGCTCCGGCACTTCTGCTGGCCAG  
 ATACACTGACTACGATTTCAATTCAGAAGAGGCCCTTCTGCGTCAGGGAAAAGCAAGTA  
 TGAAGCCATGGATTTTACAGCTTACTGAAAGAGGCCAGCAGAGCCTGCATTGATAACA  
 GCCTTAACCTCGAGGAATACCTCAATACCTCAGACAAGGCCCTTCCAATATGTTTACGT  
 TTTCAAAGAAATCAAGTATATGAGGAGAGCGAGCGAGCGTGAGAGAACCCCGTGAGAGA  
 GACTTGAAACTGCTGTCCTTAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:**

>Reverse primer walk for NM\_133263 unedited  
 NNGGCGTGCCTCACCGTACTGCAGCGCACTGTGCCGAGTGAAGTGTCTTATGTAGTTCTGT  
 ACAACTTCGGCTCTGAGACTGCATCATGGGAGCCTTCTTGTCTTGGGTGCTGTCCGCCTT  
 AACACAGGCCGTTGACTTTTAGATCTGAGGCCTGCCTGGCGCCAGCGGTCCTTCTCCTC  
 TGGGTGTGAGAGCTTGTGTTGGGTAGGATGTGGCCAGGAGGAGCTTCTGAGCAGTGA  
 AGCTCGTCCACCTCAGGGGCTGGGGCCAGGGCTTCTCCGGGGCAGGGCTGGGGGGTGCA  
 GATGAGGGGGCAGGCGAAGCTGAGGTGCATGATAGAGCGTCTCCACCATCCAGGGCTGGG  
 AAGGCAGCCAGACCCACGTATCTTACGGGATGTATCCAGGGTCTTGGTGAAGCTGCTGCC  
 AGGAGGGCCTCATTCTCACTGTCAATCTGGAAGAGCTCGGAGTCATCGGGGCTGACTGG  
 TTGGGTTCACTCTGAGTCTCTGGGCACCACTGCAGCTCCCCAAAGCAGGTGGCCGAG  
 TCAAAGTCGCTGGCATCCAGCTGGGAGAGGTCAAGTCTGGAAAGTCAGCATAGAGTTGC  
 TCCTCCCCGACCCTCCACCCTGCGTGTGAGCGAGATAGTTGAGGAAGAAAGAGGAGAGC  
 TCTTCGTCAGCAGCGCGCCGAGTCGTTCCCCGCCATCTTCCAGCCGCGGCTGCAGCGT  
 GCGGCGGAGTCAACGCCGAGCCGCCGNGGGGAGGGAGCCAGCGAGCGACCAAGGGAG  
 GAAGGAGGAGGGAGTGAAGCCCGCGGGAGCCGAAAGGCGNACCTCGACCCCGCTGCC  
 GCAGGGCCGCTAGCTGCNNGGGCCGGCCGCGCGCCCGGGGAGCCGCGGGG

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_133263 unedited AAACCTGGCAGCTTCTGGCAAGCTTGGGNAGCTGGCTGGGCTGTGGCATGTCGCAGGTGG GACAGGAGCTCACTTCGCTCTGGGTGCTTCTTTGGCAGCTTGTGGGCAGCCCCTGGGGTG GCCTTGAGTGAGAGGCCCTCAGGGGAGGGGAGGCTGAGAGCTATTTCTTTGCCTAGACTA TGCTTGATGTCTGGTTTGAAGGGATCCTCCTCTGTGGGCTGTACGGTGGTGTGGTGGGT GGGCTGAGTCTGCTGTGCCACAGAGCTCCACTGTCAAGGTCTGCTCAAAGCTCTTCTTG CCAAAAGTTGGGTCGCTTTGTGACAAGGCCAGCATGAGGCACCTGGGAGAGTCTCTGGGA GGGAGCTGCGGGCAGCTGGGGTCTCATCCATGTCCCCACACCCACTCTCACAGGGGCTC TCCAGGGCAGGGATCTGGGGTCCCCGTAGGAGCTGCTGGTCTTGCCACTGTCCTCGTCC GTGGGGCTGCCAGCTCCCGCTCTACGTCGTAGGCCTTGGGAGCCAGGCACAGTGAGGGC AGAGCACCTTGGGGCTCCGAGGGGACCAGCGGCTCATCTGCAAATGTCAGCCAGGGGCC AGCTCAAGGTTCACTCCGAGAACGCCGACGGNGCACACAGAGCTCTCCAGCTTCTC CCCAGCTTCGTCATGGCAGGCCTCGGCTGGCCTTTTCTGCCCACTCCTCCTCCTCC TCTTTTTCTTCTCCTCTCCTCCCTCTTCTTCTCCTCGTCTTCTCCTCCTGCTGCTGCA GTCTGGCAGGCCGGGCGGACTCCCTTTTACCTCCAGCCGAGTGGGCGCAAGCTTGGTC TGGGCCCCGTGCTCCTGGGTGAAGCTGCGATCCTTACCTCCTCCACCCGAGACCGCGCAA CCAC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_133263
<b>Insert Size:</b>	3500 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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><a href="#">NM_133263.2</a></u> , <u><a href="#">NP_573570.2</a></u>
<b>RefSeq Size:</b>	3277 bp
<b>RefSeq ORF:</b>	3072 bp
<b>Locus ID:</b>	133522
<b>UniProt ID:</b>	<u><a href="#">Q86YN6</a></u>
<b>Cytogenetics:</b>	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 (1) represents the longest transcript and encodes the longest 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.