

## Product datasheet for **RC212244**

### PGC1 alpha (PPARGC1A) (NM\_013261) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PGC1 alpha (PPARGC1A) (NM_013261) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PGC1 alpha
Synonyms:	LEM6; PGC-1(alpha); PGC-1alpha; PGC-1v; PGC1; PGC1A; PPARGC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC212244 representing NM\_013261  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGTGGGACATGTGCAACCAGGACTCTGAGTCTGTATGGAGTGACATCGAGTGTGCTGCTCTGGTTG  
 GTGAAGACCAGCCTCTTTGCCAGATCTTCTGAACTTGATCTTTCTGAACTAGATGTGAACGACTTGGA  
 TACAGACAGCTTTCTGGGTGGACTCAAGTGGTGCAGTGACCAATCAGAAATAATATCCAATCAGTACAAC  
 AATGAGCCTTCAAACATATTTGAGAAGATAGATGAAGAGAATGAGGCAAACCTTGCTAGCAGTCTCACAG  
 AGACACTAGACAGTCTCCCTGTGGATGAAGACGGATTGCCCTCATTTGATGCGCTGACAGATGGAGACGT  
 GACCACTGACAATGAGGCTAGTCTTCCCTCATGCCTGACGGCACCCCTCCACCCAGGAGGCAGAAGAG  
 CCGTCTCTACTTAAGAAGCTCTTACTGGCACCAGCCAACACTCAGCTAAGTTATAATGAATGCAGTGGTC  
 TCAGTACCCAGAACCATGCAAAATCACAATCACAGGATCAGAACAAACCCTGCAATTGTTAAGACTGAGAA  
 TTCATGGAGCAATAAAGCGAAGAGTATTTGTCAACAGCAAAAGCCACAAAGACGTCCTGCTCGGAGCTT  
 CTCAAATATCTGACCACAACGATGACCCTCCTCACACCAAAACCACAGAGAACGAAACAGCAGCAGAG  
 ACAAAATGCACCTCAAAAAGAAGTCCCACACACAGTTCGAGTCACAACACTTACAAGCCAAACCAACAAC  
 TTTATCTCTTCTCTGACCCAGAGTACCAAAATGACCCCAAGGGTTCCCATTTGAGAACAAGACTATT  
 GAACGCACCTTAAGTGTGGAACCTCTGGAACCTGACGGCCTAACTCCACCCACCACTCTCTCATAAAG  
 CCAACCAAGATAACCCCTTTTAGGGCTTCTCAAAGCTGAAGTCTCTTGAAGACTGTGGTGCCACCACC  
 ATCAAAGAAGCCAGGTACAGTGAGTCTTCTGGTACACAAGGCAATAACTCCACCAAGAAAGGGCCGGAG  
 CAATCCGAGTTGTATGCACAACCTCAGCAAGTCTCAGTCTCACTGGTGGACACGAGGAAAGGAAGACCA  
 AGCGGCCAGTCTGCGGCTGTTTGGTGACCATGACTATTGCCAGTCAATTAATTCAAAACGGAAATACT  
 CATTAAATATATCACAGGAGCTCCAAGACTTAGACAACCTAGAAAATAAAGATGTCTCCTCTGATTGGCAG  
 GGGCAGATTTGTTCTTCCACAGATTAGACCAAGTCTACCTGAGAGAGACTTTGGAGGCAAGCAAGCAGG  
 TCTCTCTTGCAGCACAAGAAAACAGCTCCAAGACCAGGAAATCCGAGCCGAGCTGAACAAGCACTTCGG  
 TCATCCCAGTCAAGCTGTTTTGACGACGAAGCAGACAAGACCAGTGAAGTGAAGGACAGTGATTTCAAT  
 AATGAACAATTCTCAAACCTACCTATGTTTATAAATTCAGGACTAGCCATGGATGGCCTGTTTGATGACA  
 GCGAAGATGAAAGTGATAAACTGAGCTACCCTTGGGATGGCACACAATCCTATTTCATTGTTCAATGTGC  
 TCCTTCTGTTCTTCTTTAACTCTCCATGTAGAGATTCTGTGTCACCACCCAAATCCTTATTTTCTCAA  
 AGACCCCAAAGGATGCGCTCTCGTTCAAGTCTTTTCTCGACACAGGTCGTGTTCCCGATCACCATATT  
 CCAGGTCAAGATCAAGTCTCCAGGCAGTAGATCCTCTTCAAGATCCTGCTATTACTATGAGTCAAGCCA  
 CTACAGACACCGCACGCACCGAAATTCCTCCTGTATGTGAGATCACGTTCAAGATCGCCCTACAGCCGT  
 CGGCCAGGTATGACAGTACGAGGAATATCAGCACGAGAGGCTGAAGAGGGAAGAATATCGCAGAGAGT  
 ATGAGAAGCGAGAGTCTGAGAGGGCCAAGCAAAGGGAGAGGCAGAGGCAGAAGGCAATTGAAGAGCGCCG  
 TGTGATTTATGTCGGTAAATCAGACCTGACACAACACGGACAGAAGTGAAGGACCGTTTTGAAGTTTTT  
 GGTGAAATTGAGGAGTGACAGTAAATCTGCGGGATGATGGAGACAGCTATGGTTTACCTACCTACCGTT  
 ATACCTGTGATGCTTTTGTCTCTTGAATGGATACACTTTGCGCAGGTCAAACGAAACTGACTTTGA  
 GCTGTACTTTTGTGGACGCAAGCAATTTTCAAGTCTAACTATGCAGACCTAGATTCAAACCTCAGATGAC  
 TTTGACCTGCTTCCACCAAGAGCAAGTATGACTCTCTGGATTTGATAGTTTACTGAAAGAAGCTCAGA  
 GAAGCTTGCGCAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC212244 representing NM\_013261  
 Red=Cloning site Green=Tags(s)

MAWDMCNQDSESVWSDIECAALVGEDQPLCPDLPELDLSELDVNDLDTDSFLGGLKWCSDQSEIISNQYN  
 NEPSNIFEKIDEENEANLLAVL TETLDSL PVDEDGLPSFDALTDGDVTTDNEASPSMPPDGTPPPQEAEE  
 PSLKLLAPANTQLSYNECSGLSTQNHANHNHRIRTNPAIVKTENSWSNKAKSICQQQKQRRPCSEL  
 LKYLTTNDPPHTKPTENRNSRDKCTSKKKSHTQSQSQHLQAKPTTSLPLTPESPNDPKGSPFENKTI  
 ERTL SVELSGTAGLTPPTTPPHKANQDNPFRA SPKLKSSCKTVVPPPSKKPRYSESSGTQGNNSTKKGPE  
 QSELYAQLSKSSVLTGGHEERKTKRPSLRLFGDHDYCSINSKTEILINISQELQDSRQLENKDVSSDWQ  
 GQICSSTDSDQCYLRETLEASKQVSPCSTRKQLQDQEI RAELNKHFHGPSQAVFDDEADKTSELRSDFS  
 NEQFSKLPMFINSGLAMDGLFDDSEDESKLSYPWDGTQSYSLFNVSPCSSFNSPCRDSSVSPKSLFSQ  
 RPQRMRSRSRFSRHRSCSRSPYSRSRSPGSRSSSRSCYYYESSHYRHRTHRNSPLYVRSRSPYSR  
 RPRYDSYEEYQHERLKREEYRREYEKRESERAKQRERQQAIEERRVIYVGKIRPDTTRELDRFEVF  
 GEIEECTVNLRDDGDSYGFITYRYTCDAFAALENGYTLRRSNETDFELYFCGRKQFFKSNYADLDSNSDD  
 FDPASTKSKYDSLDFDLSLLKEAQRSLRR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

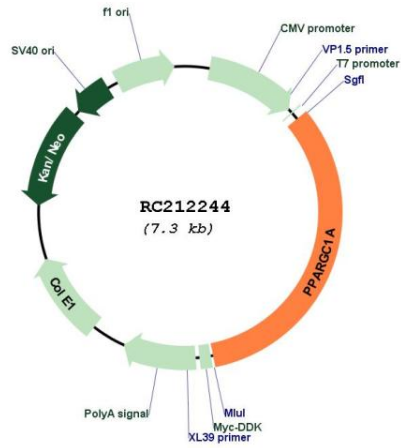
**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2412\\_c01.zip](https://cdn.origene.com/chromatograms/mg2412_c01.zip)

**Restriction Sites:** SgfI-MluI



<b>OTI Annotation:</b>	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>	<a href="#">NM_013261.5</a>
<b>RefSeq Size:</b>	6317 bp
<b>RefSeq ORF:</b>	2397 bp
<b>Locus ID:</b>	10891
<b>UniProt ID:</b>	<a href="#">Q9UBK2</a>
<b>Cytogenetics:</b>	4p15.2
<b>Domains:</b>	RRM
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Adipocytokine signaling pathway, Huntington's disease, Insulin signaling pathway
<b>MW:</b>	90.8 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC212244