

## Product datasheet for **KN313675**

### Pparg Mouse Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	Pparg
Locus ID:	19016
Components:	<p><b>KN313675G1</b>, Pparg gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGTGGTCTTCCATCACGGAG</p> <p><b>KN313675G2</b>, Pparg gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAGCTGATTCCGAAGTTGGT</p> <p><b>KN313675D</b>, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

#### Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

```

AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC
AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCCGGC
ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAATTTT AAAAGTGCTC
ATCATTGGAA AACGTTCTTC GGGCGAAAA CTCTCAAGGA TCTTACCCTG GTTGAGATCC AGTTCGATGT
AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTACCAGC GTTTCTGGGT GAGCAAAAAC
AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT ACTCTTCCTT
TTTCAATATT ATTGAAGCAT TTATCAGGT TATTGTCTCA TGAGCGGATA CATATTTGAA TGTATTTAGA
AAAATAACA AATAGGGGTT CCGCGCAT TCCCCGAAA AGTGCCACCT GACGTCTAAG AAACCATTAT
TATCATGACA TTAACCTATA AAAATAGGCG TATCACGAGG CCCTTTCGGG TCGCGGTTT CGGTGATGAC
GGTAAAACC TCTGACACAT GCAGCTCCG TTGACGGTCA CAGCTTGCT GTAAGCGGAT GCCGGGAGCA
GACAAGCCG TCAGGGCGC TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG CGGCATCAGA
GCAGATTGTA CTGAGAGTGC ACCATAAAT TGTAACGTT AATATTTTGT TAAAATTCGC GTTAAATTTT
TGTTAAATCA GCTCATTTTT TAACCAATAG GCCGAAATCG GCAAAATCCC TTATAATCA AAAGAATAGC
CCGAGATAGG GTTGAGTGTT GTTCCAGTTT GGAACAAGAG TCCACTATTA AAGAACGTGG ACTCCAACGT
CAAAGGGCGA AAAACCGTCT ATCAGGGCGA TGGCCCACTA CGTGAACCAT CACCAAATC AAGTTTTTTG
GGGTCGAGGT GCCGTAAAGC ACTAAATCGG AACCCATAAG GGAGCCCCG ATTTAGAGCT TGACGGGGAA
AGCCGGCGAA CGTGCGGAGA AAGGAAGGGA AGAAAGCGAA AGGAGCGGGC GCTAGGGCGC TGGCAAGTGT
AGCGGTACG CTGCGGTAA CCACCACACC CGCCGCGCTT AATGCGCCG TACAGGGCGC GACTATGGT
TGCTTTGACG TATGCGGTGT GAAATACCGC ACAGATCGCT AAGGAGAAAA TACCGCATCA GGCGCCATTC
GCCATTCAGG CTGCGCAACT GTTGGGAAGG GCGATCGGTG CGGGCTCTT CGCTATTACG CCAGCTGGCG
AAAGGGGAT GTGCTGCAAG GCGATTAAGT TGGTAACGC CAGGGTTTTC CCAGTACGA CGTTGTA AAA
CGACGGCCAG TGAATTGGAG GCTACAGTCA GTGGAGAGGA CTTTCACAG CTGTCGCCG GCTCATTTGA

```



[View online »](#)

TAACTGCCG TTATTCATGC GACACCGTCT CAACCTGCAG AATGCACATG TATACACAGG CATGCATACT  
 CAAACAAGTA AAAAAAAAAA CCCATAGTAT ATATACACAC ATATGCAGAA TGCACACACA TGAACATGTA  
 TGCACACACA CACACATACA TACAGTAAA TACTCTATGG CCTTTAAAAA GGAAAAACTT CTGTTTCTTG  
 TAGCAATATA GATGACCCA AGGAACATTG TACTAAGGAA AACAACTAG ACTCAGGAAA CCAGATGCCA  
 CATACTCTTG CTAGTTGCCA AGGCCTAGGC GTAGGGAAGA CTGGCCAGGG TTTCCATAAC ACTTTGGAGT  
 CCTGATAGAC AGCAAGATGA TTATAGTTAG AAATACTGTA TCATATAGTT GAAATTTGCT AATGAAGCAG  
 ATCTAAGTT CTCTCAATAC AGAACTCAG GTAAAGGCTG ACTTCCTTCT TACCTGGGTG GTACTAGAAA  
 GGCAGTAGTG CACTCACCCC CATAGGGAAG TCTGAGTGAA ATGCTTTATT AAACCTATTC AGCTCCTCTC  
 TATGTCTATG AGGACTGCTC TGCCCTCCAG AACTTGACTC ATATCCTGTT CTTTTTTTTT CACTTCAGAA  
 ATTACCACTA GCATGGAGAG CGACGAGAGC GGCCTGCCCG CCATGGAGAT CGAGTGCCCG ATCACC GGCA  
 CCCTGAACGG CGTGGAGTTC GAGCTGGTGG GCGGCGGAGA GGGCACCCCC GAGCAGGGCC GCATGACCAA  
 CAAGATGAAG AGCACCAAAG GCGCCCTGAC CTTCAGCCCC TACCTGCTGA GCCACGTGAT GGGCTACGGC  
 TTCTACCACT TCGGCACCTA CCCCAGCGGC TACGAGAACC CCTTCCTGCA CGCCATCAAC AACGGCGGCT  
 ACACCAACAC CCGCATCGAG AAGTACGAGG ACGGCGGCGT GCTGCACGTG AGCTTCAGCT ACCGCTACGA  
 GGCCGGCCCG GTGATCGGCG ACTTCAAGGT GATGGGCACC GGCTTCCCCG AGGACAGCGT GATCTTCACC  
 GACAAGATCA TCCGAGCAA CGCCACCGTG GAGCACCTGC ACCCCATGGG CGATAACGAT CTGGATGGCA  
 GCTTCACCCG CACCTTCAGC CTGCGCGACG GCGGCTACTA CAGCTCCGTG GTGGACAGCC ACATGCACTT  
 CAAGAGCGCC ATCCACCCA GCATCCTGCA GAACGGGGG CCCATGTTCC CCTTCCGCCG CGTGGAGGAG  
 GATCACAGCA ACACCGAGCT GGGCATCGTG GAGTACCAGC ACGCCTCAA GACCCCGGAT GCAGATGCCG  
 GTGAAGAAAG AGTTAAGAA TTCCGATCAT ATTCAATAAC CCTTAATATA ACTTCGTATA ATGTATGCTA  
 TACGAAGTTA TTAGGTCTGA AGAGGAGTTT ACGTCCAGCC AAGCTTAGGA TCTCGACCTC GAAATTCTAC  
 CGGGTAGGGG AGGCGCTTTT CCCAAGGCAG TCTGGAGCAT GCGCTTAGC AGCCCCGTG GGCATTGGC  
 GCTACACAAG TGGCCTCTGG CCTCGACATC ATCCACATC CACCGTAGG CGCCAACCGA CTCGGTTCTT  
 TGGTGGCCCC TTCGCGCCAC CTCTACTCC TCCCCTAGTC AGGAAGTTCC CCCCCGCCG GCAGCTCGCG  
 TCGTGCAAGG CGTGACAAAT GGAAGTAGCA CGTCTACTA GTCTCGTGA GATGGACAGC ACCGCTGAGC  
 AATGGAAGCG GGTAGGCCTT TGGGGCAGCG GCCAATAGCA GCTTTGCTCC TTCGTTTCT GGGCTCAGAG  
 GCTGGGAAGG GGTGGGTCCG GGGGCGGGCT CAGGGCGGGG CTCAGGGGCG GGGCGGGCGC CCGAAGGTCC  
 TCCGGAGGCC CGGCATTCTG CACGCTTCAA AAGCGCACGT CTGCCGCGCT GTTCTCTCT TCCTCATCTC  
 CGGGCCTTTC GACCTGCATC CATCTAGATC TCGAGCAGT GAAGCTTACC ATGACCGAGT ACAAGCCCAC  
 GGTGCGCCTC GCCACCCGCG ACGACGTCCC CAGGGCCGTA CGCACCTCG CCGCCGCGT CGCCGACTAC  
 CCCGCCACGC GCCACACCGT CGATCCGAC CGCCACATCG AGCGGGTAC CGAGCTGCAA GAACTCTTCC  
 TCACGCGCGT CGGGCTCGAC ATCGGCAAGG TGTGGTTCG GACGACGGC GCCGCGGTGG CGGTCTGGAC  
 CACGCCGGAG AGCGTCGAAG CGGGGGCGGT GTTCGCCGAG ATCGGCCCGC GCATGGCCGA GTTGAGCGGT  
 TCCCGGCTGG CGCGCAGCA ACAGATGGAA GGCTCCTGG CGCCGACCCG GCCAAGGAG CCCGCGTGGT  
 TCCTGGCCAC CGTCGGCGTC TCGCCGACC ACCAGGGCAA GGGTCTGGG AGCGCCGTCG TGCTCCCCGG  
 AGTGGAGGCG GCCGAGCGCG CCGGGGTGCC CGCTTCTG GAGACCTCG CGCCCCACA CCTCCCTTC  
 TACGAGCGGC TCGGCTTAC CGTCACCGCC GACGTCGAGG TGCCGAAGG ACCGCGACC TGGTGCATGA  
 CCCGCAAGCC CGGTGCCTGA CGCCGCCGCC ACGACCCGCA GCGCCGACC GAAAGGAGC CACGACCCCA  
 TGCATCGATG ATATCAGATC CCCGGGATGC AGAAATTGAT GATCTATTAA ACAATAAGA TGTCCACTAA  
 AATGGAAGTT TTTCTGTCA TACTTTGTTA AGAAGGGTGA GAACAGAGTA CCTACATTTT GAATGGAAGG  
 ATTGGAGCTA CGGGGTGGG GGTGGGTGG GATTAGATAA ATGCTGCTC TTTACTGAAG GCTCTTACT  
 ATTGCTTAT GATAATGTTT CATAGTTGGA TATCATAATT TAAACAAGCA AAACCAAAT AAGGGCCAGC  
 TCATTCCTCC CACTCATGAT CTATAGATCT ATAGATCTCT CGTGGGATCA TTGTTTTTCT CTTGATTCCC  
 ACTTTGTGGT TCTAAGTACT GTGGTTTCCA AATGTGTCAG TTTTCATAGCC TGAAGAACGA GATCAGCAGC  
 CTCTGTTCCA CATACTTTC ATTCTCAGTA TTGTTTTGCC AAGTTCTAAT TCCATCAGAA GCTGGTCGAG  
 ATCCGGAACC CTTAATATAA CTTCGTATAA TGTATGCTAT ACGAAGTTAT TAGGTCCTC GAAGAGGTTT  
 ACTAGGCGCG CCATTCCTTT GACATCAAGC CCTTTACCAC AGTTGATTTT TCCAGCATT TCGCTCCACA  
 CTATGAAGAC ATTCCATTCA CAAGAGCTGA CCAATGGTT GCTGATTACA AATATGACCT GAAGCTCCAA  
 GAATACAAA GTATGTTTAC TTTTCAAAC ACTAGGATTG GAGTTAGACA GTTTTTAAT AACCATTGAA  
 TAAATGCTCC TGAGATTAGC ACTCTGACAA GAAGGCATCT TTAICTAGTT TATCCACTAC GCTTGAAGTT  
 CTAGATGTCT GTGGGAGGCC AAGATAAGAC AGCACAACAA TGTTCCCAAC CTAACCCCTT TTCTTCTTCT  
 CCCTCAAATG TTCCCAAAC TACACACACA CACACACACA CACACACACA CACACACACA CACACGTCTA

TCTTCTCCTT TCTTTCCTTT CTTGTTTCCA TCTTTGGAAC ATTTTCTAGG ATGACTACAT TGCCAGTTTT  
 GTCTTAGGCT GACAGTCCAT CATGTAACT TTGAATTCTC CCAGCTTCTT TTCAGTAAGT CATAGCTGTA  
 GGTCAACTTA CATGACTCAT CATAGCTAAG TTACTIONTAC AGTTAGGCAC GAAGAGACGT CACTCTCGCC  
 GGTGGACTT TAGATCAGAA GGGATCTTGC TGCCGCCGA AAGAGGAAGG GCTGGAAGAG GAAGGAGCTT  
 GCGTAATCA TGGTCATAGC TGTTTCCTGT GTGAAATTGT TATCCGCTCA CAATCCACA CAACATACGA  
 GCCGGAAGCA TAAAGTGTA AGCCTGGGGT GCCTAATGAG TGAGCTAAT CACATTAATT GCGTTGCGCT  
 CACTGCCCGC TTTCCAGTCG GGAACCTGT CGTGCCAGCT GCATTAATGA ATCGGCCAAC GCGCGGGGAG  
 AGGCGGTTTG CGTATTGGGC GCTCTTCCGC TTCCTCGCTC ACTGACTCGC TCGCTCGGT CGTTCCGCTG  
 CGGCGAGCGG TATCAGCTCA CTCAAAGGCG GTAATACGGT TATCCACAGA ATCAGGGGAT AACGCAGGAA  
 AGAACATGTG AGCAAAAGGC CAGCAAAAGG CCAGGAACCG TAAAAAGGCC GCGTTGCTGG CGTTTTTCCA  
 TAGGCTCCGC CCCCTGACG AGCATCACAA AAATCGACGC TCAAGTCAGA GGTGGCGAAA CCCGACAGGA  
 CTATAAGAT ACCAGGCGTT TCCCCCTGGA AGCTCCCTCG TCGCTCTCC TGTTCCGACC CTGCCGCTTA  
 CCGGATACCT GTCCGCCTTT CTCCTTCGG GAAGCGTGGC GCTTTCTCAT AGCTCACGT GTAGGTATCT  
 CAGTTCGGTG TAGGTCGTTT GCTCCAAGCT GGGCTGTGTG CACGAACCCC CCGTTCAGCC CGACCCGCTGC  
 GCCTTATCCG GTAACATCG TCTTGAGTCC AACCCGGTAA GACACGACTT ATCGCCACTG GCAGCAGCCA  
 CTGGTAACAG GATTAGCAGA GCGAGGTATG TAGGCGGTGC TACAGAGTTC TTGAAGTGGT GGCCTAACTA  
 CGGCTACACT AGAAGAACAG TATTTGGTAT CTGCGCTCTG CTGAAGCCAG TTACCTTCGG AAAAAGAGTT  
 GGTAGCTCTT GATCCGGCAA ACAAACCACC GCTGGTAGCG GTGGTTTTTT TGTTTGCAAG CAGCAGATTA  
 CGCGCAGAAA AAAAGGATCT CAAGAAGATC CTTTGATCTT TTCTACGGGG TCTGACGCTC AGTGAACGA  
 AAACCTACGT TAAGGGATTT TGGTCATGAG ATTATCAAAA AGGATCTTCA CCTAGATCCT TTTAAATTA  
 AAATGAAGTT TTAATCAAT CTAAAGTATA TATGAGTAAA CTTGGTCTGA CAGTTACCAA TGCTTAATCA  
 GTGAGGCACC TATCTCAGCG ATCTGTCTAT TTCGTTATC CATAGTTGCC TGACTCCCCG TCGTGTAGAT  
 AACTACGATA CGGGAGGGCT TACCATCTGG CCCAGTGTG GCAATGATAC CGCAGAACCC ACGCTCACCG  
 GCTCCAGATT TATCAGCAAT AAACCAGCCA GCCGGAAGGG CCGAGCGCAG AAGTGGTCTT GCAACTTTAT  
 CCGCTCCAT CCAGTCTATT AATTGTTGCC GGAAGCTAG AGTAAGTAGT TCGCCAGTTA ATAGTTTGC  
 CAACGTTGTT GCCATTGCTA CAGGCATCGT GGTGTCACGC TCGTCGTTTG GTATGGCTTC ATTCAGCTCC  
 GGTTCACAAC GATC

**GE100003**, scramble sequence in pCas-Guide vector

**Disclaimer:**

These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

**RefSeq:**

[NM\\_001127330](#), [NM\\_011146](#)

**UniProt ID:**

[P37238](#)

**Synonyms:**

Nr1c3; PPAR-gamma; PPAR-gamma2; PPARgamma; PPARgamma2

**Summary:**

This gene encodes a nuclear receptor protein belonging to the peroxisome proliferator-activated receptor (Ppar) family. The encoded protein is a ligand-activated transcription factor that is involved in the regulation of adipocyte differentiation and glucose homeostasis. The encoded protein forms a heterodimer with retinoid X receptors and binds to DNA motifs termed "peroxisome proliferator response elements" to either activate or inhibit gene expression. Mice lacking the encoded protein die at an embryonic stage due to severe defects in placental vascularization. When the embryos lacking this gene are supplemented with healthy placentas, the mutants survive to term, but succumb to lipodystrophy and multiple hemorrhages. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]

Product images:

