

Product datasheet for **KN201538**

PPAR gamma (PPARG) Human 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:	PPAR gamma
Locus ID:	5468
Components:	<p>KN201538G1, PPAR gamma gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TCAGTGAAGGAATCGCTTTC</p> <p>KN201538G2, PPAR gamma gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTGTCTGCAAACATATCACA</p> <p>KN201538D, 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 TGGCCGCAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTG TGAGAATAGT GTATGCCGGC
ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAATTTT AAAAGTGCTC
ATCATGGAA AACGTTCTTC GGGGCGAAAA CTCTCAAGGA TCTTACCCTG GTTGAGATCC AGTTTCGATGT
AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTACCACAG GTTTCTGGGT GAGCAAAAAC
AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT ACTCTTCCTT
TTTCAATATT ATTGAAGCAT TTATCAGGTG TATTGTCTCA TGAGCGGATA CATATTTGAA TGTATTTAGA
AAAATAACA AATAGGGGTT CCGCGCATAT TTCCCGGAAA AGTGCCACCT GACGTCTAAG AAACCATTAT
TATCATGACA TTAACCTATA AAAATAGGCG TATCACGAGG CCCTTTCGTC TCGCGGTTT CGGTGATGAC
GGTAAAACC TCTGACACAT GCAGCTCCCG GAGACGGTCA CAGCTTGCTG GTAAGCGGAT GCCGGGAGCA
GACAAGCCCG TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG CGGCATCAGA
GCAGATTGTA CTGAGAGTGC ACCATAAAAT TGTAACGTT AATATTTTGT TAAAATTCGC GTTAAATTTT
TGTTAAATCA GCTCATTTTT TAACCAATAG GCCGAAATCG GCAAAAATCCC TTATAAATCA AAAGAATAGC
CCGAGATAGG GTTGAGTGTT GTTCCAGTTT GGAACAAGAG TCCACTATTA AAGAACGTGG ACTCCAACGT
CAAAGGGCGA AAAACCGTCT ATCAGGGCGA TGGCCCACTA CGTGAACCAT CACCAAATC AAGTTTTTTG
GGGTCGAGGT GCCGTAAAGC ACTAAATCGG AACCCATAAG GGAGCCCCCG ATTTAGAGCT TGACGGGGAA
AGCCGGCGAA CGTGCGGAGA AAGGAAGGGA AGAAAGCGAA AGGAGCGGGC GCTAGGGCGC TGGCAAGTGT
AGCGGTACAG CTGCGCGTAA CCACCACACC CGCCGCGCTT AATGCGCCGC TACAGGGCGC GACTATGGT
TGCTTTGACG TATGCGGTGT GAAATACCGC ACAGATCGCT AAGGAGAAAA TACCGCATCA GGCGCCATTC
GCCATTCAGG CTGCGCAACT GTTGGGAAGG GCGATCGGTG CGGGCCTCTT CGCTATTACG CCAGCTGGCG
AAAGGGGAT GTGCTGCAAG GCGATTAAGT TGGGTAACGC CAGGGTTTTT CCAGTACAGA CGTTGTAATA
CGACGGCCAG TGAATTGGAG GCTACAGTCA GTGGAGAGGA CTTTCACAGG CTGTCGCCGT GCTCATTTGA

```



[View online »](#)

TAACTGCCCG TTATTCATGC GACACTATAA CATTTCAGTA GCATGCTGAT ACCAACGTTT AAACTATGGA
 TACATATTTG AATTCCAAT TTTTCTTCAA ATAATGTGAT TAGAGATTCA ACCAGGAATA GACACCGAAA
 GAAAACCTTG CCCAAATAAG CTTTCTGGTA TTTTATAAGC AAGAGATTTA AGTTTTCCAT TTAAGAAGCA
 ATTGTGAATT TTACAACAAT AAAAAATGCA AGTGGATATT GAACAGTCTC TGCTCTGATA ATTCTAAATA
 CAGTACAGTT CACGCCCTC ACAAGACACT GAACATGTGG GTCACCGGCG AGACAGTGTG GCAATATTTT
 CCCTGTAATG TACCAAGTCT TGCCAAAGCA GTGAACATTA TGACACAAT TTTTGTCACT GCTGGCTCCT
 AATAGGACAG TGCCAGCCAA TTCAAGCCCA GTCCTTTCTG TGTTTATTCC CATCTCTCCC AAATATTTGG
 AAAGTATGTT CTTGACTCAT GGGTGTATTC ACAAATTCTG TTAAGTCAAG TCTTTTTCTT TTAACGGATT
 GATCTTTTGC TAGATAGAGA CAAAATATCA GTGTGAATTA CAGCAAACCC CTATTCCATG CTGTTACTAG
 CATGGAGAGC GACGAGAGCG GCCTGCCCGC CATGGAGATC GAGTGCCGCA TCACCGGCAC CCTGAACGGC
 GTGGAGTTTC AGCTGGTGGG CGGCGGAGAG GGCACCCCGC AGCAGGGCCG CATGACCAAC AAGATGAAGA
 GCACCAAAGG CGCCCTGACC TTCAGCCCTT ACCTGCTGAG CCACGTGATG GGCTACGGCT TCTACCACTT
 CGGCACCTAC CCCAGCGGCT ACGAGAACC CTTCTGCAC GCCATCAACA ACGGCGGCTA CACCAACACC
 CGCATCGAGA AGTACGAGGA CGGCGGCGTG CTGCACGTGA GCTTCAGCTA CCGCTACGAG GCCGGCCGCG
 TGATCGGCGA CTTCAAGGTG ATGGGCACCG GCTTCCCGA GGACAGCGTG ATCTTACCAC ACAAGATCAT
 CCGCAGCAAC GCCACCGTGG AGCACCTGCA CCCCATGGGC GATAACGATC TGGATGGCAG CTTACCCCGC
 ACCTTCAGCC TCGCGACGCG CGGCTACTAC AGCTCCGTGG TGGACAGCCA CATGCACCTT AAGAGCGCCA
 TCCACCCAG CATCCTGCAG AACGGGGGCC CCATGTTTCG CTTCCGCGC GTGGAGGAGG ATCACAGCAA
 CACCGAGCTG GGCATCGTGG AGTACCAGCA CGCCTTCAAG ACCCCGGATG CAGATGCCGG TGAAGAAAGA
 GTTAAAGAAT TCCGATCATA TTCAATAACC CTTAATATAA CTTCTGATAA TGTATGCTAT ACGAAGTTAT
 TAGGTCTGAA GAGGAGTTTA CGTCCAGCCA AGCTTAGGAT CTCGACCTCG AAATTCTACC GGGTAGGGGA
 GGCCTTTTC CCAAGGCAGT CTGGAGCATG CGCTTTAGCA GCCCGCTGG CACTTGGCGT TACACAAGTG
 GCCTCTGGCC TCGCACACAT TCCACATCCA CCGGTAGCCG CAACCGGCTC CGTTCTTTGG TGGCCCTTC
 GCGCCACCTT CTACTCTCC CCTAGTCAGG AAGTTCCCGC CCGCCCGCA GCTCGCGTGG TGCAGGACGT
 GACAAATGGA AGTAGCACGT CCACTAGTC TCGTGCAGAT GGACAGCACC GCTGAGCAAT GGAAGCGGGT
 AGGCCTTTGG GGCAGCGGCC AATAGCAGCT TTGCTCCTT GCTTTCTGGG CTCAGCAGCT GGAAGGGTG
 GGTCCGGGGG CGGGCTCAGG GGCAGGCTCA GGGGCGGGG GGGCGCCGA AGGTCTCCG GAGGCCGGC
 ATTCTGCACG CTTCAAAGC GCACGTCTGC CGCGCTGTT TCCTCTTCT CATCTCCGGG CCTTTCGACC
 TGCATCCATC TAGATCTCGA GCAGCTGAAG CTTACCATGA CCGAGTACAA GCCCACGGT GCCTCGCCA
 CCCGCGACGA CGTCCCAGG GCCGTACGCA CCCTCGCCG CGCGTTCGCC GACTACCCG CCACGCGCCA
 CACCGTCGAT CCGGACCGC ACATCGAGCG GGTACCGAG CTGCAAGAAC TCTTCTCAC GCGCGTCGGG
 CTCGACATCG GCAAGGTGTG GGTGCGGAC GACGCGCGCG CGGTGGCGGT CTGGACCACG CCGGAGAGCG
 TCGAAGCGGG GGCAGTGTTC GCCGAGATCG GCCCGCGCAT GGCCGAGTTG AGCGGTTCCG GGCTGGCCG
 GCAGCAACAG ATGGAAGGCC TCCTGGCGCC GCACCGGCC AAGGAGCCCG CGTGGTTCTT GGCCACCGTC
 GGCCTCTCGC CCGACCACA GGGCAAGGGT CTGGGACGCG CCGTCTGTCT CCCCAGGAGT GAGGCGGCCG
 AGCGCGCCCG GGTGCCCGCC TTCCTGGAGA CCTCCGCGC CCACAACCTC CCCTTCTACG AGCGGCTCGG
 CTTACCGTTC ACCGCGACG TCGAGGTGCC CGAAGGACCG CGCACCTGGT GCATGACCCG CAAGCCCGGT
 GCCTGACGCC CGCCCCAGCA CCCGACGCG CCGACCGAAA GGAGCGCACG ACCCATGCA TCGATGATAT
 CAGATCCCCG GGATGCAGAA ATTGATGATC TATTAACAA TAAAGATGTC CACTAAAATG GAAGTTTTTC
 CTGTCATACT TTGTTAAGAA GGGTGAGAAC AGAGTACCTA CATTTTGAAT GGAAGGATTG GAGCTACGGG
 GGTGGGGGTG GGGTGGGATT AGATAAATGC CTGCTCTTTA CTGAAGGCTC TTTACTATTG CTTTATGATA
 ATGTTTCATA GTTGATATC ATAATTTAAA CAAGCAAAAC CAAATTAAGG GCCAGCTCAT TCCTCCACT
 CATGATCTAT AGATCTATAG ATCTCTCGTG GGATCATTGT TTTTCTCTT ATTCCCACTT TGTGGTTCTA
 AGTACTGTGG TTTCAAATG TGTCAGTTTC ATAGCCTGAA GAACGAGATC AGCAGCTCTT GTTCCACATA
 CACTTCATTC TCAGTATTGT TTTGCCAAGT TCTAATTCCA TCAGAAGCTG GTCGAGATCC GGAACCCTTA
 ATATAACTTC GTATAATGTA TGCTATACGA AGTTATTAGG TCCCTCGAAG AGGTTCACTA GGCAGCCTA
 CGGCTATTGG GGACGTGGG GCATTTATGT AAGGGTAAAA TTGCTCTTGT AGTTTGTCTT CCAGGTTGTG
 TTTGTTTTAA TACTATCATG TGTACACTCC AGTATTTTAA TGCTTAGCTC GTTGCTATCG CGTTTCACTA
 AAAACATGTT CAGAACCCTA AAAAAGGAAA CCTAACCTAA TCTATTTTAT CTCTGTGCAT GGCTCCCACT
 TCCTGAATTT TAAGCATTAA AGGTATAGTT ATATCCAAA ACAATCCTGT TCATTTTTAT TTCCTGAGTT
 TGCATAGATT TCCCAAGAA ACATAAGGGC TTTTLAGACT TGAAGGGTCA CTTTTCTCTC TTTTCTCTC
 ATATGTTAGA GATCTCTCAT AACTGTTTTT ATCCCTCTG CAGCACTTTT ATTCTCTTG AAGTACTCTC

```

AGCTCTTTTC TGTTCATTT TGAAATCTAG GTATTGTGTG TGCAC TTCAG CTCTCCCAA GAATTGTAAA
TTCCAGAGT GTAGGACCAA GTGGTGCTCT TTATTAGATT TCTTAGGATA CTTCTAGCA TAGTGCCTAA
TGCATTGCAG AATAGATTGT CGGAACCTTG AAAAAATTC ACTCTCGCCG GTTGGACTTT AGATCAGAAG
GGATCTTGCT GCCGCCGAA AGAGGAAGGG CTGGAAGAGG AAGGAGCTTG GCGTAATCAT GGTCATAGCT
GTTTCCTGTG TGAATTGTT ATCCGCTCAC AATTCCACAC AACATACGAG CCGGAAGCAT AAAGTGAAAA
GCCTGGGGTG CCTAATGAGT GAGCTAACTC ACATTAATTG CGTTGCGCTC ACTGCCCGCT TTCCAGTCGG
GAAACCTGTG GTGCCAGCTG CATTAATGAA TCGGCCAACG CGCGGGGAGA GCGGTTTGC GTATTGGGCG
CTCTCCGCT TCCTCGCTCA CTGACTCGCT GCGCTCGGTC GTTCGGCTGC GCGGAGCGGT ATCAGCTCAC
TCAAAGGCGG TAATACGGTT ATCCACAGAA TCAGGGGATA ACGCAGGAAA GAACATGTGA GCAAAAAGGCC
AGCAAAAGGC CAGGAACCGT AAAAAGGCCG CGTTGCTGGC GTTTTTCCAT AGGCTCCGCC CCCCTGACGA
GCATCACAAA AATCGACGCT CAAGTCAGAG GTGGCGAAAC CCGACAGGAC TATAAGATA CCAGGCGTTT
CCCCCTGGAA GCTCCCTCGT GCGCTCTCCT GTTCCGACCC TGCCGCTTAC CGGATACCTG TCCGCCTTTC
TCCCTTCGGG AAGCGTGGCG CTTTCTCATA GCTCACGCTG TAGGTATCTC AGTTCGGTGT AGGTCGTTTCG
CTCCAAGCTG GGCTGTGTGC ACGAACCCCC CGTTCAGCCC GACCGCTGCG CTTATCCGG TAACTATCGT
CTTGAGTCCA ACCCGGTAAG ACACGACTTA TCGCCACTGG CAGCAGCCAC TGGAACAGG ATTAGCAGAG
CGAGGTATGT AGGCGGTGCT ACAGAGTTCT TGAAGTGGTG GCCTAACTAC GGCTACACTA GAAGGACAGT
ATTTGGTATC TGCCTCTGC TGAAGCCAGT TACCTTCGGA AAAAGAGTTG GTAGCTCTTG ATCCGGCAAAA
CAAACCACCG CTGGTAGCGG TGGTTTTTTT GTTTGCAAGC AGCAGATTAC GCGCAGAAAA AAAGGATCTC
AAGAAGATCC TTTGATCTTT TCTACGGGGT CTGACGCTCA GTGGAACGAA AACTCACGTT AAGGGATTTT
GGTCATGAGA TTATCAAAA GGATCTTCAC CTAGATCCTT TAAATTTAAA AATGAAGTTT TAAATCAATC
TAAAGTATAT ATGAGTAAAC TTGGTCTGAC AGTTACCAAT GCTTAATCAG TGAGGCACCT ATCTCAGCGA
TCTGTCTATT TCGTTCATCC ATAGTTGCCT GACTCCCGT CGTGTAGATA ACTACGATAC GGGAGGGCTT
ACCATCTGGC CCCAGTGCTG CAATGATACC GCGAGACCCA CGCTCACCGG CTCCAGATTT ATCAGCAATA
AACACGCCAG CCGGAAGGGC CGAGCGCAGA AGTGGTCTTG CAACTTTATC CGCTCCATC CAGTCTATTA
ATTGTTGCCG GGAAGCTAGA GTAAGTAGTT CGCCAGTTAA TAGTTTGCGC AACGTTGTTG CCATTGCTAC
AGGCATCGTG GTGTCACGCT CGTCGTTTGG TATGGCTTCA TTCAGCTCCG GTTCCCAACG ATC

```

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_001330615](#), [NM_005037](#), [NM_015869](#), [NM_138711](#), [NM_138712](#), [NM_001354666](#),
[NM_001354667](#), [NM_001354668](#), [NM_001354669](#), [NM_001354670](#)

UniProt ID:

[P37231](#)

Synonyms:

CIMT1; GLM1; NR1C3; PPARG1; PPARG2; PPARGgamma

Summary:

This gene encodes a member of the peroxisome proliferator-activated receptor (PPAR) subfamily of nuclear receptors. PPARs form heterodimers with retinoid X receptors (RXRs) and these heterodimers regulate transcription of various genes. Three subtypes of PPARs are known: PPAR-alpha, PPAR-delta, and PPAR-gamma. The protein encoded by this gene is PPAR-gamma and is a regulator of adipocyte differentiation. Additionally, PPAR-gamma has been implicated in the pathology of numerous diseases including obesity, diabetes, atherosclerosis and cancer. Alternatively spliced transcript variants that encode different isoforms have been described. [provided by RefSeq, Jul 2008]

Product images:

