

Product datasheet for MC211210

Rarres2 (NM_027852) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Rarres2 (NM_027852) Mouse Untagged Clone

Tag: Tag Free

Symbol: Rarres2

Synonyms: 0610007L05Rik; AI303516

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >MC211210 representing NM_027852
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAAGTGCTTGCTGATCTCCCTAGCCCTATGGCTGGGCACAGTGGGCACACGTGGGACAGAGCCCGAAC
 TCAGCGAGACCCAGCGCAGGAGCCTACAGGTGGCTCTGGAGGAGTTCCACAAACACCCACCTGTGCAGTT
 GGCCTTCCAAGAGATCGGTGTGGACAGAGCTGAAGAAGTGCTCTTCTCAGCTGGCACCTTTGTGAGGTTG
 GAATTTAAGCTCCAGCAGACCAACTGCCCAAGAAGGACTGGAAAAGCCGGAGTGCACAATCAAACCAA
 ACGGGAGAAGGCGGAAATGCCTGGCCTGCATTAATGGACCCCAAGGGTAAAATTCTAGCCGGATAGT
 CCACTGCCCAATTCTGAAGCAAGGGCCTCAGGATCCTCAGGAGTTGCAATGCATTAAGATAGCACAGGCT
 GGCGAAGACCCCAACGGCTACTTCTACCTGGACAGTTTGCCTTCTCAGGGCCCTGAGAACCAATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_027852

Insert Size: 489 bp

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).



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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:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_027852.2, NP_082128.1</u>
RefSeq Size:	708 bp
RefSeq ORF:	489 bp
Locus ID:	71660
UniProt ID:	<u>Q9DD06</u>
Cytogenetics:	6 B2.3

Gene Summary:

Adipocyte-secreted protein (adipokine) that regulates adipogenesis, metabolism and inflammation through activation of the chemokine-like receptor 1 (CMKLR1). Its other ligands include G protein-coupled receptor 1 (GPR1) and chemokine receptor-like 2 (CCRL2). Positively regulates adipocyte differentiation, modulates the expression of adipocyte genes involved in lipid and glucose metabolism and might play a role in angiogenesis, a process essential for the expansion of white adipose tissue. Also acts as a proinflammatory adipokine, causing an increase in secretion of proinflammatory and prodiabetic adipokines, which further impair adipose tissue metabolic function and have negative systemic effects including impaired insulin sensitivity, altered glucose and lipid metabolism, and a decrease in vascular function in other tissues. Can have both pro- and anti-inflammatory properties depending on the modality of enzymatic cleavage by different classes of proteases. Acts as a chemotactic factor for leukocyte populations expressing CMKLR1, particularly immature plasmacytoid dendritic cells, but also immature myeloid DCs, macrophages and natural killer cells. Exerts an anti-inflammatory role by preventing TNF/TNFA-induced VCAM1 expression and monocytes adhesion in vascular endothelial cells. The effect is mediated via inhibiting activation of NF-kappa-B and CRK/p38 through stimulation of AKT1/NOS3 signaling and nitric oxide production. Exhibits an antimicrobial function in the skin.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1. Variants 2 and 3 encodes the protein (isoform 2). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.