

Product datasheet for **RC239333**

C1orf170 (PERM1) (NM_001291367) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C1orf170 (PERM1) (NM_001291367) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C1orf170
Synonyms:	C1orf170
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC239333 representing NM_001291367
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCAGCCAGGACGGGCAGCTCAGACGCCAGCTCGGCCGCCGGGACCCAGGCGATGGATGGAGCCCC
 GAGGCGGTGGGAGCTCCAGTTCTCATCTGCCCTGGTCCGGCGTCTTCTGGAGACCAGATGCAGAGGCT
 TCTGCAGGGCCCTGCCCCACGGCCCCCTGGTGAGCCCCCTGGGAGTCCCAAGTCCCTGGCCACAGCACT
 GGCTCCCAGAGGCCCCCGATAGCCCTGGAGCCCCACCACGGAGCCCCAGCCGAAAGAAGAGGCGAGCTG
 TGGGTGCCAAGGGGGTGGGCACACAGGAGCCTCTGCTTCTGCCAGACGGGCTCCCCGTGCTCCCTGC
 GGCCAGTCTGAGACGGCAAAGCTGATGGCCAAAGCCGGGCAGGAGGAGTTGGGGCCAGGTCTGCAGGA
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 TGGCTGTGTCTACACCTGCCCTGTAGCCGCAACCTGACACGGACATGGCTGTGTCTACACCTGCCCTGA
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 CCCCCCTCCCTCTGCCGTGACGAGGGTGGGGCCGGGAGCAGCTTGGCGTGACCCTCCCGAGGCTAC
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 TCATTTGCCTTACGCCAGAATGACATGTGCTGGTGTGTTGTAGCTTTGCCACCTGGGCTGTGAGGACGT
 CAGATCCGCATACCCAGACGCTGGAAAACAGCCTTGTGGCCAACGTCGGCACCATCTCTGCCATCCG
 CTACTTCGCGGCAGGTGGGGCAAGGGCGCCGACCCACAGCCCCAGCCCCAGCTCC

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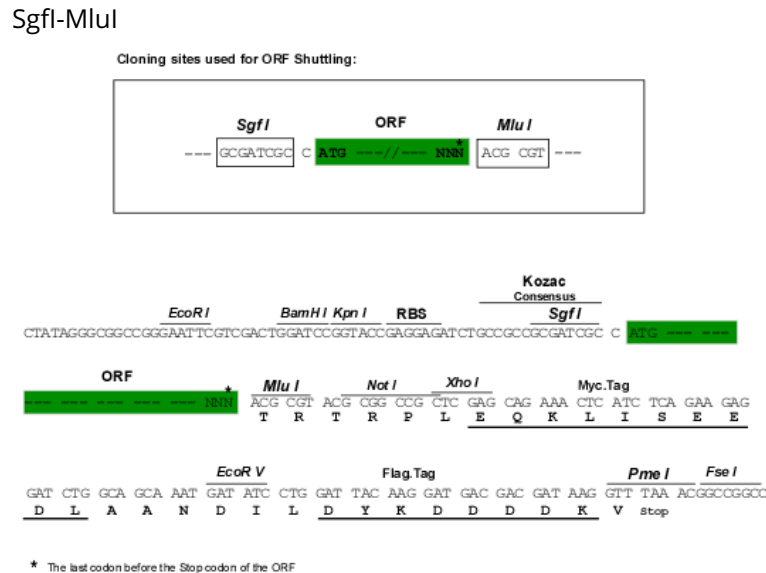
Protein Sequence: >RC239333 representing NM_001291367
 Red=Cloning site Green=Tags(s)

MPTQDQQLRRPARPPGPRAWMEPRGGSSQFSSCPGPASSGDQMQRLLQGPAPRPPGEPGSPKSPGHST
 GSQRPPDSPGAPPRSPSRKKRRVAGAKGGGHTGASASQGTGSPLLPAASPETAKLMAKAGQEELGPGPAG
 APEPGPRSPVQEDRPGPLGLSTPVPVTEQGTQDQIRTPRRAKLHTVSTTVWEALPDVSRAKSDMAVSTPA
 SEPQPDRDMAVSTPASEPQSDRDMVSTPASEPQPDMDMAVSTPASEPQPDMDMAVSIASKPQSDTAVS
 TPASEPQSSVALSTPISKPQLDQVAVSTPASKHGLDVALPTAGPVAKLEVASSPPVSEAVPRMTESSGL
 VSTPVPRAADAAGLAWPPTRRAGPDVVEAVEVSEPSAGAPGCCSGAPALGLTQVPRKKKVRFSVAGPSPN
 KPGSGQASARPSAPQTATGAHGGPGAWEA VAVGPRPHQPRILKHLPRPPSAVTRVPGSSFAVTLPEAY
 EFFFCDTIEENEEAEAAAAGQDPAGVQWDMCEFFFPDVGARSRRRGSPEPLPRADPVPAPIPGDPVPI
 SIPEVYEHFFFGEDRLEGLVLPVPLPLQALEPPRSASEGAGPTPLKPAVVERLHLALRRAGELRGPVP
 SFAFSQNDMCLVFVAFATWAVRTSDPHTPAWKTAALLANVTISAIRYFRRQVGQGRSHSPSPSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Cloning Scheme:



ACCN: NM_001291367

ORF Size: 2088 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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: [NM_001291367.1](#), [NP_001278296.1](#)

RefSeq Size: 3064 bp

RefSeq ORF: 2031 bp

Locus ID: 84808

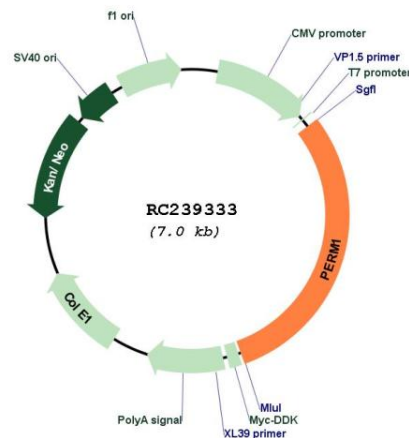
UniProt ID: [Q5SV97](#)

Cytogenetics: 1p36.33

MW: 72.4 kDa

Gene Summary: Regulates the expression of selective PPARGC1A/B and ESRRB/B/G target genes with roles in glucose and lipid metabolism, energy transfer, contractile function, muscle mitochondrial biogenesis and oxidative capacity. Required for the efficient induction of MT-CO2, MT-CO3, COX4I1, TFB1M, TFB2M, POLRMT and SIRT3 by PPARGC1A. Positively regulates the PPARGC1A/ESRRG-induced expression of CKMT2, TNNI3 and SLC2A4 and negatively regulates the PPARGC1A/ESRRG-induced expression of PDK4.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC239333