

Product datasheet for **RC225108**

PIRT (NM_001101387) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PIRT (NM_001101387) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PIRT
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC225108 representing NM_001101387
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGATGGAGACTCTCCCAAGGTTCTAGAGGTCGATGAGAAGTCTCCAGAAGCCAAGGACCTGCTGC
CCAGCCAGACCGCCAGCTCCCTGTGCATCAGCTCCAGGAGCGAGTCTGTCTGGACCACCACCCAGGAG
TAACTGGGAAATCTACCGCAAGCCCATCGTTATCATGTGTCAGTGGGCGGTGCCATCCTGCTTTTCGGCGTG
GTCATCACCTGCTTGGCCTACACCTTGAAGCTGAGTGACAAGAGTCTCTCCATCCTCAAATGGTAGGGC
CTGGCTTCTGTCCTGGGACTCATGATGCTGGTGTGCGGGCTGGTGTGGGTGCCCATCATCAAAAAGAA
ACAGAAGCACAGACAGAAGTCGAATTTCTTACGCAGCCTCAAGTCCTTCTCCTGACTCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC225108 representing NM_001101387
Red=Cloning site Green=Tags(s)

MTMETLPKVLEVDEKSPEAKDLLPSQTASSLCISSRSESVWTTTPRSNWEIYRKPIVIMSVGGAILLFGV
VITCLAYTLKLSDKLSILKMGVPGFSLGLMMLVCGLVVWPIIKKKQKHRQKSNFLRSLKSFLLTR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3164_h05.zip

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001101387

ORF Size: 411 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.

RefSeq: [NM_001101387.2](#)

RefSeq ORF: 414 bp

Locus ID: 644139

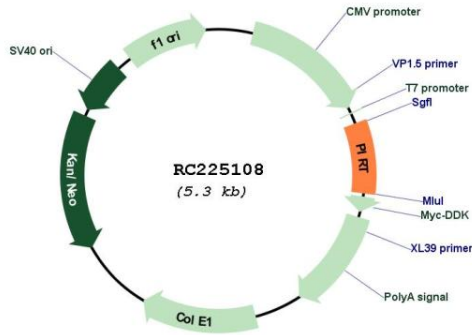
UniProt ID: [P0C851](#)

Cytogenetics: 17p12

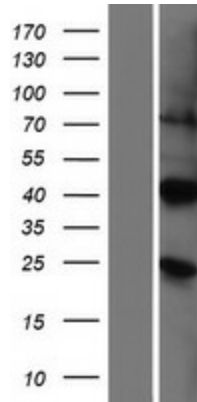
MW: 15.2 kDa

Gene Summary: Regulatory subunit of TRPV1, a molecular sensor of noxious heat and capsaicin. Positively regulates TRPV1 channel activity via phosphatidylinositol 4,5-bisphosphate (PIP2). Binds various phosphoinositide, including phosphatidylinositol 4,5-bisphosphate (PIP2), but not phosphatidylinositol (PI) (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC225108



Western blot validation of overexpression lysate (Cat# [LY426151]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225108 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).