

## Product datasheet for RC223875

### GPR17 (NM\_005291) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPR17 (NM_005291) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223875 representing NM_005291 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATGGCCTTGAAGTGGCTCCCCAGGTCTGATCACCAACTTCTCCCTGGCCACGGCAGAGCAATGTG  
GCCAGGAGACGCCACTGGAGAACATGCTGTTCCGCTCCTTCTACCTTCTAGATTTTATCCTGGCTTTAGT  
TGGCAATACCTGGCTCTGTGGTTTTTCATCCGAGACCACAAGTCCGGGACCCCGCCAACGTGTTCCCTG  
ATGCATCTGGCCGTGGCCGACTTGTCTGCGTGTGGTCTGCCACCCGCTGGTCTACCACTTCTCTG  
GGAACCACTGGCATTGGGGAAATCGCATGCCGTCTCACGGCTTCTCTTCTACCTCAACATGTACGC  
CAGCATCTACTTCTCACCTGCATCAGCGCCGACCGTTTCTGGCCATTGTGCACCCGGTCAAGTCCCTC  
AAGCTCCGACGGCCCTCTACGCACACCTGGCCTGTGCCTTCTGTGGTGGTGGTGGTGTGGCCATGG  
CCCCGCTGCTGGTGGAGCCACAGACCGTGCAGACCAACCACCGTGGTCTGCCTGCAGCTGTACCGGGA  
GAAGGCCCTCCACCATGCCCTGGTGTCCCTGGCAGTGGCCTTACCTTCCCGTTTCATCACCACGGTCACC  
TGCTACCTGCTGATCATCCGCAGCCTGCGGCAGGGCCTGCGTGTGGAGAAGCGCCTCAAGACCAAGGCAG  
TGCGCATGATCGCCATAGTGTGGCCATCTTCTGGTCTGCTTCGTGCCCTACCACGTCAACCGCTCCGT  
CTACGTGCTGACTACCGCAGCCATGGGGCCTCCTGCGCCACCCAGCGCATCTGGCCCTGGCAAACCGC  
ATCACCTCTGCCTCACCAGCCTCAACGGGGCACTCGACCCCATCATGATTTCTTCGTGGCTGAGAAGT  
TCCGCCACGCCCTGTGCAACTTGTCTGTGGCAAAGGCTCAAGGGCCCGCCCCCAGCTTCGAAGGGAA  
AACCAACGAGAGCTCGCTGAGTGCCAAGTCAGAGCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC223875 representing NM\_005291  
 Red=Cloning site Green=Tags(s)

MNGLEVAPPGLITNFSLATAEQCGQETPLENMLFASFYLLDFILALVGNTLALWFFIRDHKSGETPANVFL  
 MHLAVADLSCVLVLPTRLVYHFSGNHWPFGIACRLTGFLFYLNMYASIFLTCISADRFLAIVHPVKSL  
 KLRRLPYAHLACAFWVAVAMAPLLVSPQTVQTNHTVVCLQLYREKASHHALVSLAVAFTFPFITTVT  
 CYLLIIRSLRQGLRVEKRLKTKAVRMIAIVLAIFLVCFVPYHVNRSVYVLHYRSHGASCATQRILALANR  
 ITSCLTSLNGALDPIMYFFVAEKFRRHALCNLLCGKRLKGGPPPSFEGKTNESSLSAKSEL

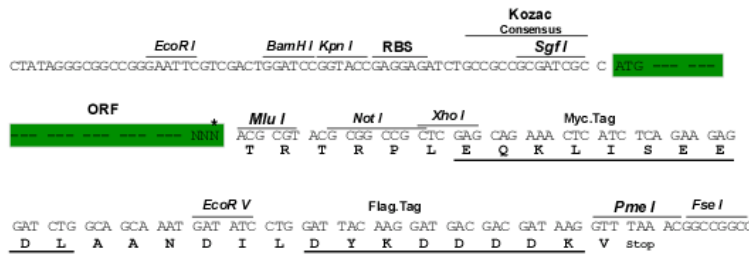
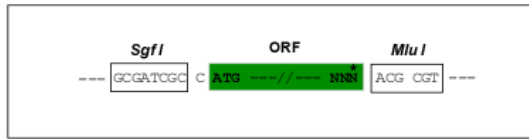
TRTRPLEQKLISEEDLAANDILDYKDDDDKVV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3750\\_g01.zip](https://cdn.origene.com/chromatograms/mg3750_g01.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_005291

**ORF Size:** 1017 bp

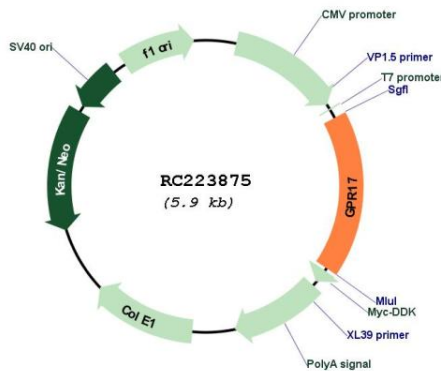
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

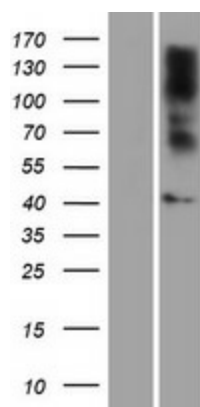
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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 Size:** 2070 bp
- RefSeq ORF:** 1104 bp
- Locus ID:** 2840
- UniProt ID:** [Q13304](#)
- Cytogenetics:** 2q14.3
- Protein Families:** Druggable Genome, GPCR, Transmembrane
- MW:** 37.86 kDa
- Gene Summary:** Dual specificity receptor for uracil nucleotides and cysteinyl leukotrienes (CysLTs). Signals through G(i) and inhibition of adenylyl cyclase. May mediate brain damage by nucleotides and CysLTs following ischemia.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC223875



Western blot validation of overexpression lysate (Cat# [LY417401]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223875 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).