

## Product datasheet for **RG228828**

### GPR17 (NM\_001161417) Human Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | GPR17 (NM_001161417) Human Tagged ORF Clone                                    |
| Tag:                      | TurboGFP   |
| Symbol:                   | GPR17  |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)  |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |
| ORF Nucleotide Sequence:  | >RG228828 representing NM_001161417<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATGGCCTTGAAGTGGCTCCCCAGGTCTGATCACCAACTTCTCCCTGGCCACGGCAGAGCAATGTG  
GCCAGGAGACGCCACTGGAGAACATGCTGTTCCGCTCCTTCTACCTTCTAGATTTTATCCTGGCTTTAGT  
TGGCAATACCTGGCTCTGTGGTTTTTCATCCGAGACCACAAGTCCGGGACCCCGCCAACGTGTTCCCTG  
ATGCATCTGGCCGTGGCCGACTTGTGTCGCTGCTGGTCCTGCCACCCGCTGGTCTACCACTTCTCTG  
GGAACCACTGGCATTGGGGAAATCGCATGCCGTCTCACGGCTTCTCTTCTACCTCAACATGTACGC  
CAGCATCTACTTCTCACCTGCATCAGCGCCGACCGTTTCTGGCCATTGTGCACCCGGTCAAGTCCCTC  
AAGCTCCGACGGCCCTCTACGCACACCTGGCCTGTGCCTTCTGTGGTGGTGGTGGCTGTGGCCATGG  
CCCCGCTGCTGGTGGCCACAGACCGTGCAGACCAACCACCGTGGTCTGCCTGCAGCTGTACCGGGA  
GAAGGCCCTCCACCATGCCCTGGTGTCCCTGGCAGTGGCCTTACCTTCCCGTTTCATCACCACGGTCAAC  
TGCTACCTGCTGATCATCCGCAGCCTGCGGCAGGGCCTGCGTGTGGAGAAGCGCCTCAAGACCAAGGCAG  
TGCGCATGATCGCCATAGTGTGGCCATCTTCTGGTCTGCTTCGTGCCCTACCACGTCAACCGCTCCGT  
CTACGTGCTGCACTACCGCAGCCATGGGGCCTCCTGCGCCACCCAGCGCATCTGGCCCTGGCAAACCGC  
ATCACCTCTGCCTCACCAGCCTCAACGGGGCACTCGACCCCATCATGATTTCTTCGTGGCTGAGAAGT  
TCCGCCACGCCCTGTGCAACTTGTCTGTGGCAAAGGCTCAAGGGCCCGCCCCAGCTTCGAAGGGAA  
AACCAACGAGAGCTCGCTGAGTGCCAAGTCAGAGCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG228828 representing NM\_001161417  
 Red=Cloning site Green=Tags(s)

MNGLEVAPPGLITNFSLATAEQCGQETPLENMLFASFYLLDFILALVGNTLALWFFIRDHKSQTPANVFL  
 MHLAVADLSCVLVLPTRLVYHFSGNHWPFGIEACRLTGFLFYLNMYASIFYLTCISADRFLAIVHPVKSL  
 KLRRLPYAHLACAFWVAVAMAPLLVSPQTVQTNHTVVCLQLYREKASHHALVSLAVAFTFPFITTVT  
 CYLLIIRSLRQGLRVEKRLKTKAVRMIAIVLAIFLVCFVPYHVNRSVYVLHYRSHGASCATQRILALANR  
 ITSCLTSLNGALDPIMYFFVAEKFRHALCNLLCGKRLKGPSPFEGKTNESLSAKSEL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001161417

**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:** [NM\\_001161417.1](#), [NP\\_001154889.1](#)

**RefSeq Size:** 2315 bp

**RefSeq ORF:** 1020 bp

**Locus ID:** 2840

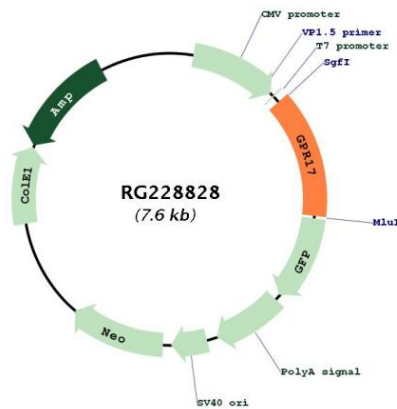
**UniProt ID:** [Q13304](#)

**Cytogenetics:** 2q14.3

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**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 RG228828