

Product datasheet for **RG228005**

GPR14 (UTS2R) (NM_018949) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR14 (UTS2R) (NM_018949) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR14
Synonyms:	GPR14; UR-2-R; UTR; UTR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228005 representing NM_018949 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTGACCCCCGAGTCCCCGAGCAGCTTCCCTGGGCTGGCCGCCACCGGCAGCTCTGTGCCGGAGC
CGCCTGGCGGCCCAACGCAACCCTCAACAGCTCCTGGGCCAGCCGACCGAGCCAGCTCCCTGGAGGA
CCTGGTGGCCACGGGCACCATTGGGACTCTGCTGTGGCCATGGGCGTGGTGGGCGTGGTGGCAACGCC
TACACGCTGGTGGTCACCTGCCGCTCCCTGCGTGGTGGCTCCATGTACGTCTACGTGGTCAACCTGG
CGCTGGCCGACCTGCTGTACCTGCTCAGCATCCCCTTCATCGTGGCCACCTACGTACCAAGGAGTGGCA
CTTCGGGGACGTGGGCTGCCGCTGCTCTTCGGCCTGGACTTCCTGACCATGCACGCCAGCATCTTCACG
CTGACCGTCATGAGCAGCGAGCGCTACGCTGCGGTGCTGCGGCCGCTGGACACCGTGCAGCGCCCAAGG
GCTACCGCAAGCTGCTGGCGCTGGGCACCTGGCTGCTGGCGCTGCTGACGCTGCCCGTGATGCTGGC
CATGCGGCTGGTGCAGCGGGGTCCCAAGAGCCTGTGCCTGCCCGCTGGGGCCCGCGGCCACCGCGCC
TACCTGACGCTGCTTTCGCCACCAGCATCGCGGGGCCGGGCTGCTCATCGGCTGCTCTACGCGCGCC
TGGCCCGCGCTACCGCCGCTCGCAGCGCGCTCCTTCAAGCGGGCCCGCGGCCGGGGCGCGCGCT
GCGCCTGGTGGTGGCATCGTGTGCTCTTCTGGGCTGCTTCTGCCCTTCTGGCTGTGGCAGCTGCTC
GCCCCAGTACCACAGGCCCGCTGGCGCCGCGGACGGCGCATCGTCAACTACCTGACCACCTGCCTCA
CCTACGGCAACAGCTGCGCCAACCCTTCTCTACACGCTGCTACCAAGAACTACCGCGACCACCTGCG
CGGCCGCTGCGGGGCCGGGCAGCGGGGAGGCCGGGGCCCGTTCCCTCCCTGCAGCCCCGCGCCCGC
TTCCAGCGCTGTTCCGGCCGCTCCCTGTCTTCTGCAGCCACAGCCACTGACAGCCTCGTGTGGCC
CAGCGGCCCGGCCGACCTGCGCCGAGGGTCCAGGGCCCCGGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228005 representing NM_018949
 Red=Cloning site Green=Tags(s)

MALTPESPSSFPGLAATGSSVPEPPGPNATLNSSWASPTESPSSLEDLVATGTIGTLLSAMGVVGVVGNAYTLVVTCRSLRAVASMYYVVVNLALADLLYLLSIPFIVATYVTKWHFGDVGCRVLFGLDFLTMHASIFT
 LTVMSSERYAAVLRPLDVTQRPKGYRKLALGTWLLALLLTLVMLAMRLVRRGPKSLCLPAWGPRAHRA
 YLTLLFATSIAAGPGLLIGLLYARLARAYRRSQRASFKRARRPGARALRLVLGIVLLFWACFLPFWLWQLL
 AQYHQAPLARPTARIVNYLTTCLTYGNSCANPFLYTLLTRNYRDHLRGRVVRGPGSGGGRGPVPSLQPRAR
 FQRCSGRSLSSCSPQPTDSLVLAPAAPARPAPEGPRAPA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018949

ORF Size: 1167 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_018949.1](#), [NP_061822.1](#)

RefSeq Size: 1170 bp

RefSeq ORF: 1170 bp

Locus ID: 2837

UniProt ID: [Q9UKP6](#)

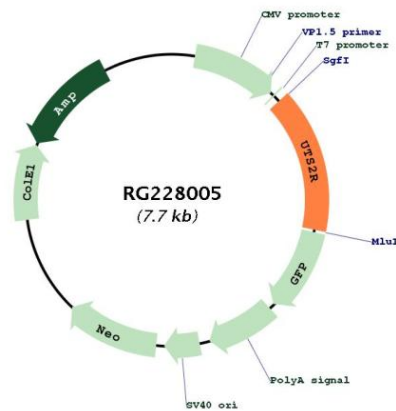
Cytogenetics: 17q25.3

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: High affinity receptor for urotensin-2 and urotensin-2B. The activity of this receptor is mediated by a G-protein that activate a phosphatidylinositol-calcium second messenger system.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG228005