

## Product datasheet for **RG205907**

### **RHCG (NM\_016321) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RHCG (NM_016321) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RHCG
Synonyms:	C15orf6; PDRC2; RHGK; SLC42A3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG205907 representing NM\_016321  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCTGGAACACCAACCTCCGCTGGCGGCTGCCGCTCACCTGCCTGCTCCTGCAGGTGATTATGGTGA  
 TTCCTTCGGGGTGTTCGTGCGCTACGACTTCGAGGCCGACGCCACTGGTGGTCAGAGAGGACGCACAA  
 GAACCTTGAGCGACATGGAGAACGAATTCTACTATCGCTACCCAAGCTTCCAGGACGTGCACGTGATTGGTC  
 TTCGTGGGCTTCGGCTTCTCATGACTTTCCTGCAGCGCTACGGCTTCAGCGCCGTGGGCTTCAACTTCC  
 TGTGGCAGCCTTCGGCATCCAGTGGCGCTGCTCATGCAGGGCTGGTCCACTTCTTACAAGACCCTCA  
 CATCGTCGTGGGCGTGGAGAACCTCATCAACGCTGACTTCTGCGTGGCCTCTGTCTGCGTGGCCTTTGGG  
 GCAGTTCTGGGTAAGTCAGCCCATTAGCTGCTCATCATGACTTCTTCCAAGTGACCCTCTTCGCTG  
 TGAATGAGTTCATTCTCCTAACCTGCTAAAGGTGAAGGATGCAGGAGGCTCCATGACCATCCACACATT  
 TGGCGCCTACTTTGGGCTCACAGTGACCCGGATCCTCTACCGACGCAACCTAGAGCAGAGCAAGGAGAGA  
 CAGAAATCTGTGTACCAGTCGGACCTCTTTGCCATGATTGGCACCTCTTCTGTGGATGTACTGGCCCA  
 GCTTCAACTCAGCCATATCCTACCATGGGGACAGCCAGCACCAGCCGCCATCAACACCTACTGCTCCTT  
 GGCAGCCTGCGTGCTTACCTCGGTGGCAATATCCAGTGCCTGCACAAGAAGGGCAAGCTGGACATGGTG  
 CACATCCAGAATGCCACGCTCGCAGGAGGGGTGGCCGTGGGTACCGCTGCTGAGATGATGCTCATGCCTT  
 ACGGTGCCCTCATCATCGGCTTCGTCTGCGGCATCATCTCCACCTGGGTTTTGTATACCTGACCCATT  
 CCTGGAGTCCCGGCTGCACATCCAGGACACATGCGGCATTAACAATCTGCATGGCATTCTGGCATCATA  
 GGCGGCATCGTGGTGTGTGACAGCGGCTCCGCCAGCCTTGAAGTCTATGGAAAAGAAGGGCTTGTC  
 ATTCCTTTGACTTCAAGGTTTCAACGGGACTGGACCGCAAGAACACAGGAAAAGTTCCAGATTTATGG  
 TCTCTTGGTGACCTGGCCATGGCCCTGATGGGTGGCATCATTGTGGGGCTCATTTTGAGATTACCATT  
 TGGGGACAACCTTCAAGTGAAGTACTGTTTGGAGTGCAGTACTGGGAGATGCCTGAAGGGAACAGCA  
 CTGTCTACATCCCTGAGGACCCACCTTCAAGCCCTCAGGACCCTCAGTACCCTCAGTACCCTGTTGTC  
 CCCACTACCCATGGCTTCTCGTACCCTTGGTACCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG205907 representing NM\_016321  
 Red=Cloning site Green=Tags(s)

MAWNTNLRWRLPLTCLLLQVIMVILFGVFRYDFEADAHWWSEKTHKNLSDMENEFYYRYPFQDVHVMV  
 FVGFGLMTFLQRYGFSAVGFNLLAAGFIQWALLMQGFHFLQDRYIVGVENLINADFCVASVCVAFG  
 AVLKGVSPIQLLIMTFFQVTLFAVNEFILLNLLKVKDAGGSMTIHTFGAYFGLTVTRILYRRNLEQSKER  
 QNSVYQSDLFAMIGTLFLWYWPFSFNSAISYHGDSQHRAAINTYCSLAACVLTSAISSALHKKGLDMV  
 HIQNATLAGGVAVGTAAEMMLMPYGALIIIGFVCGIISTLGFVYLPFLESRLHIQDTCGINNLHGIPGII  
 GGIVGAVTAASASLEVYKGLVHVSDFQGFNGDWTARTQKFKIYGLLVTLAMALMGGIIVGLILRLPF  
 WGQPSDENCFEDAVYWEMPEGNSTVYIPEDPTFKPSGSPVSPVPMVSPLPMASVPLVP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_016321

**ORF Size:** 1437 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\\_016321.1](#), [NP\\_057405.1](#)

**RefSeq Size:** 1952 bp

**RefSeq ORF:** 1440 bp

**Locus ID:** 51458

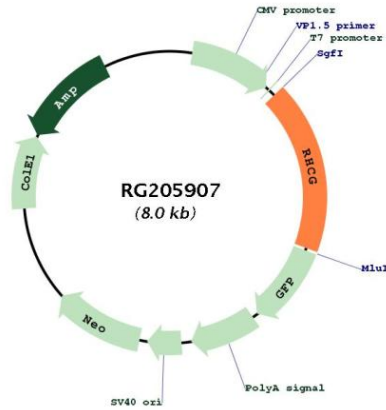
**UniProt ID:** [Q9UBD6](#)

Cytogenetics: 15q26.1

Protein Families: Transmembrane

Gene Summary: Functions as an electroneutral and bidirectional ammonium transporter. May regulate transepithelial ammonia secretion.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG205907