

## Product datasheet for **RG210240**

### 5HT1E Receptor (HTR1E) (NM\_000865) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | 5HT1E Receptor (HTR1E) (NM_000865) Human Tagged ORF Clone                   |
| Tag:                      | TurboGFP  |
| Symbol:                   | 5HT1E Receptor  |
| Synonyms:                 | 5-HT1E  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >RG210240 representing NM_000865<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACATCACAACTGTACCACAGAGGCCAGCATGGCTATAAGACCCAAGACCATCACTGAGAAGATGC  
TCATTTGCATGACTCTGGTGGTCATCACCACCCTCACCACGTTGCTGAAC TTGGCTGTGATCATGGCTAT  
TGGCACCACCAAGAAGCTCCACCAGCCTGCCAACTACCTAATCTGTTCTCTGGCCGTGACGGACCTCCTG  
GTGGCAGTGCTCGTCATGCCCTGAGCATCATCTACATTGTCATGGATCGCTGGAAGCTTGGGTACTTCC  
TCTGTGAGGTGTGGCTGAGTGTGGACATGACCTGCTGCACCTGCTCCATCCTCCACCTCTGTGTCATTGC  
CCTGGACAGGTA CTGGCCATCACCAATGCTATTGAATACGCCAGGAAGAGGACGGCCAAGAGGGCCGCG  
CTGATGATCCTTACCGTCTGGACCATCTCCATTTTCATCTCCATGCCCCCTCTGTCTGGAGAAGCCACC  
GCCGCCTAAGCCCTCCCCTAGTCAGTGCACCATCCAGCAGCACCATGTTATCTACACCATTTACTCCAC  
GCTGGGTGCGTTTTATATCCCCTTGACTTTGATACTGATTCTCTATTACCGGATTTACCACGCGGCCAAG  
AGCCTTTACCAGAAAAGGGGATCAAGTCGGCACTTAAGCAACAGAAGCACAGATAGCCAGAATCTTTTG  
CAAGTTGTAACCTTACACAGACTTTCTGTGTGTGCTGACTTCTCCACCTCAGACCTACCACAGAGTTTGA  
AAAGTTCCATGCCTCCATCAGGATCCCCCTTCGACAATGATCTAGATCACCCAGGAGAACGTCAGCAG  
ATCTCTAGCACCAGGGAACGGAAGGCAGCAGCATCCTGGGCTGATTCTGGGTGCATTTTATCCT  
GGCTGCCATTTTCATCAAAGAGTTGATTGTGGGTCTGAGCATCTACACCGTGTCTCGGAAGTGGCCGA  
CTTTCTGACGTGGCTCGTTATGTGAATCTCTGATCAACCCCTGCTCTATACGAGTTTTAATGAAGAC  
TTTAAGCTGGCTTTTAAAAGCTCATTAGATGCCGAGAGCATACT

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210240 representing NM\_000865  
 Red=Cloning site Green=Tags(s)

MNITNCTTEASMAIRPKTITEKMLICMTLVVITLTTLLNLAVIMAIGTTKKLHQPANYLICSLAVTDLL  
 VAVLVMPLSIIYIVMDRWKLGFLCEVWLSVDMTCCTCSILHLCVIALDRYWAITNAIEYARKRTAKRAA  
 LMILTVWTISIFISMPPLFWRSRRLSPPPSQCTIQHDHVIYTIYSTLGAFYIPLTLILILYYRIYHAAK  
 SLYQKRGSSRHLNRSSTDSQNSFASCKLTQTFVSDFSTSDPTTEFEKPHASIRIPFDNDLDHPGERQQ  
 ISSTRERKAARILGLILGAFILSWLPFFIKELIVGLSIYTVSSEVADFLTWLGYVNSLINPLLYTSFNED  
 FKLAFKKLIRCREHT

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_000865

**ORF Size:** 1095 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\\_000865.3](#)

**RefSeq Size:** 1930 bp

**RefSeq ORF:** 1098 bp

**Locus ID:** 3354

**UniProt ID:** [P28566](#)

**Cytogenetics:** 6q14.3

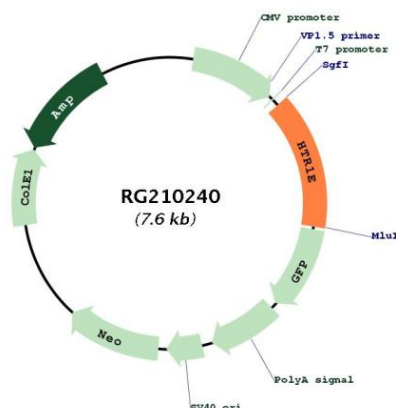
**Domains:** 7tm\_1

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

**Protein Pathways:** Neuroactive ligand-receptor interaction

**Gene Summary:** G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for various alkaloids and psychoactive substances. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Signaling inhibits adenylate cyclase activity.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG210240