

# Recombinant Rhesus Monkey HTR2C Protein, His-tagged

**Cat. No.** HTR2C-001R    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b> | Recombinant Rhesus Monkey 5-hydroxytryptamine receptor 2C Protein (23-458aa) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Rhesus macaque                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 23-458aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | This gene encodes a seven-transmembrane G-protein-coupled receptor. The encoded protein responds to signaling through the neurotransmitter serotonin. The mRNA of this gene is subject to multiple RNA editing events, where adenosine residues encoded by the genome are converted to inosines. RNA editing is predicted to alter the structure of the second intracellular loop, thereby generating alternate protein forms with decreased ability to interact with G proteins. Abnormalities in RNA editing of this gene have been detected in victims of suicide that suffer from depression. In addition, naturally-occurring variation in the promoter and 5' non-coding and coding regions of this gene may show statistically-significant association with mental illness and behavioral disorders. Alternative splicing results in multiple different transcript variants. |
| <b>Tag</b>              | N-His                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | 55.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AA Sequence</b>    | CDISVSPVAAIVTDIFNTSDGGRFKFPDGVQNWPAISIVVIIIMTIGGNILVIMAVSMEK<br>KLHNATNYFLMSLAIDMLVGLLVMP LSLAILYDYVWPLPRYLCPVWISLDVLFSTAS<br>IMHLCAISLD RYVAIRNPIEHSRFSNRTKAIMKIAIVWAISIGVSVPIPVIGLRDEDKV FV<br>NNTTCVLNDPNFVLIGSFVAFFIPLTIMVITYCLTIYVLRRLQALMLLHGHT EEPGLSLD<br>FLKCKRNTAE EENAANPNQDQNARRRRKKERRPRGTMQAINNERKASKVLGIVFF<br>VFLIMWCPFFITNLSVLCEKSCNQKLMEKLLNVFVWIGYVCSGINPLVYTLFNKIYRR<br>AFSNYLRCNYKVEKKPPVRQIPRVAATALSGRELNVNIYRHTNEPVIKKASDNEPGIE<br>MQAENLELPVNPSSVVSERISSV |
| <b>Purity</b>         | ≥85%, by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>        | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                               |
| <b>Storage Buffer</b> | Lyophilized from PBS, 0.05% Brij 78, 6% Trehalose, pH 7.4. The volume before lyophilization is 57 µL/vial.                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Reconstitution</b> | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20/-80 centigrade. Our default final concentration of glycerol is 50%.                                                                                                     |

## GENE INFORMATION

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HTR2C 5-hydroxytryptamine receptor 2C [ <i>Macaca mulatta</i> (Rhesus monkey) ]                         |
| <b>Official Symbol</b> | HTR2C                                                                                                   |
| <b>Synonyms</b>        | HTR2C; 5-hydroxytryptamine (serotonin) receptor 2C, G protein-coupled; 5-hydroxytryptamine receptor 2C; |

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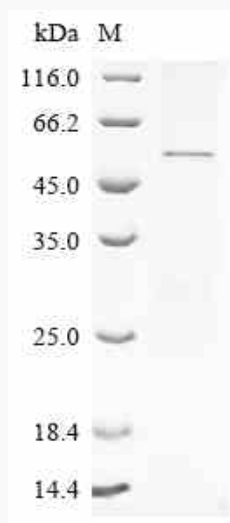
**Gene ID** 708141

**mRNA Refseq** XM\_028841962

**Protein Refseq** XP\_028697795

**UniProt ID** F7A578

**WB**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel. Boiling SDS-treated samples may result in membrane protein aggregation. Incubation at 37 centigrade for 10 min is an effective alternative.

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