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Product datasheet for RG233545

HTR2C (NM_001256761) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HTR2C (NM_001256761) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HTR2C
Synonyms:	5-HT1C; 5-HT2C; 5-HTR2C; 5HTR2C; HTR1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233545 representing NM_001256761 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGTGAACCTGAGGAATGCGGTGCATTCATTCCTTGTGCACCTAATTGGCCTATTGGTTTGGCAATGTG ATATTTCTGTGAGCCCAGTAGCAGCTATAGTAACTGACATTTTCAATACCTCCGATGGTGGACGCTTCAA ATTCCCAGACGGGGTACAAAACTGGCCAGCACTTTCAATCGTCATCATAATAATCATGACAATAGGTGGC AACATCCTTGTGATCATGGCAGTAAGCATGGAAAAGAAACTGCACAATGCCACCAATTACTTCTTAATGT CCCTAGCCATTGCTGATATGCTAGTGGGACTACTTGTCATGCCCCTGTCTCTCCTGGCAATCCTTTATGA TTATGTCTGGCCACTACCTAGATATTTGTGCCCCGTCTGGATTTCTTTAGATGTTTTATTTTCAACAGCG TCCATCATGCACCTCTGCGCTATATCGCTGGATCGGTGTATCAGTTCCTATCCCTGTGATTGGACTGAGG GACGAAGAAAAGGTGTTCGTGAACAACACGACGTGCGTGCTCAACGACCCAAATTTCGTTCTTATTGGGT CCTTCGTAGCTTTCTTCATACCGCTGACGATTATGGTGATTACGTATTGCCTGACCATCTACGTTCTGCG CCGACAAGCTTTGATGTTACTGCACGGCCACACCGAGGAACCGCCTGGACTAAGTCTGGATTTCCTGAAG TGCTGCAAGAGGAATACGGCCGAGGAAGAGAACTCTGCAAACCC ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

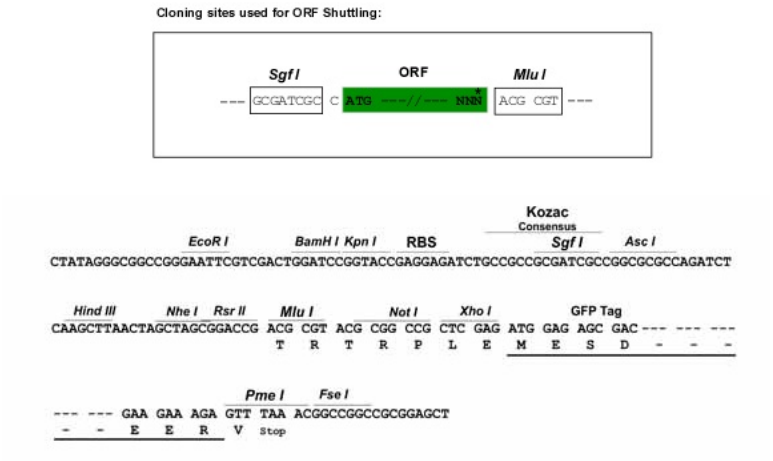
>RG233545 representing NM_001256761
Red=Cloning site Green=Tags(s)

MVNLRNAVHSFLVHLIGLLVWQCDISVSPVAAIVTDIFNTSDGGRFKFPDGVQNWPALSIVIIIIMTIGG
NILVIMAVSMEKKLHNATNYFLMSLAIADMLVGLLVMPLSLLAILYDYVWPLPRYLCPVWISLDVLFSTA
SIMHLCAISLDRCISSYPCDWTEGRRKGVREQHDVRAQRPKFRSYWVLRSFLHTADDYGDYVLPDHLRSA
PTSFDVTARPHRGTAWTKSGFPEVLQEEYGRGRELCKP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001256761

ORF Size: 744 bp

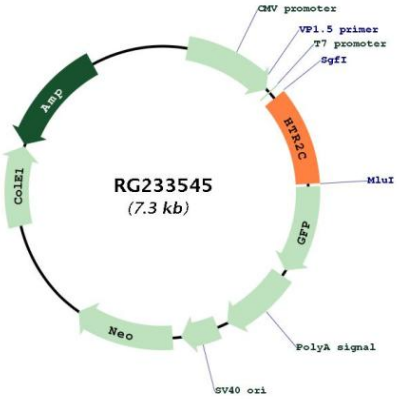
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_001256761.2
RefSeq Size:	4679 bp
RefSeq ORF:	747 bp
Locus ID:	3358
UniProt ID:	P28335
Cytogenetics:	Xq23
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Gap junction, Neuroactive ligand-receptor interaction
Gene Summary:	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-occuring 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. [provided by RefSeq, Jan 2015]

Product images:



Circular map for RG233545