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Product datasheet for SC332469

HTR2C (NM_001256761) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HTR2C (NM_001256761) Human Untagged Clone
Tag:	Tag Free
Symbol:	HTR2C
Synonyms:	5-HT1C; 5-HT2C; 5-HTR2C; 5HTR2C; HTR1C
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC332469 representing NM_001256761. Blue=Insert sequence Red=Cloning site Green=Tag(s) ATGGTGAACCTGAGGAATGCGGTGCATTCATTCCTTGTGCACCTAATTGGCCTATTGGTTTGGCAATGT GATATTTCTGTGAGCCCAGTAGCAGCTATAGTAACTGACATTTTCAATACCTCCGATGGTGGACGCTTC AAATTCCCAGACGGGGTACAAAACTGGCCAGCACTTTCAATCGTCATCATAATAATCATGACAATAGGT GGCAACATCCTTGTGATCATGGCAGTAAGCATGGAAAAGAAACTGCACAATGCCACCAATTACTTCTTA ATGTCCCTAGCCATTGCTGATATGCTAGTGGGACTACTTGTCATGCCCCTGTCTCTCCTGGCAATCCTT TATGATTATGTCTGGCCACTACCTAGATATTTGTGCCCCGTCTGGATTTCTTTAGATGTTTTATTTTCA ACAGCGTCCATCATGCACCTCTGCGCTATATCGCTGGATCGGTGTATCAGTTCCTATCCCTGTGATTGG ACTGAGGGACGAAGAAAAGGTGTTCGTGAACAACACGACGTGCGTGCTCAACGACCCAAATTTCGTTCT TATTGGGTCCTTCGTAGCTTTCTTCATACCGCTGACGATTATGGTGATTACGTATTGCCTGACCATCTA CGTTCTGCGCCGACAAGCTTTGATGTTACTGCACGGCCACACCGAGGAACCGCCTGGACTAAGTCTGGA TTTCCTGAAGTGCTGCAAGAGGAATACGGCCGAGGAAGAGAACTCTGCAAACCCTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001256761
Insert Size:	747 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).

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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_001256761.1
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
MW:	28.1 kDa
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] Transcript Variant: This variant (3, also known as 5-HT2C-tr) differs in the 5' UTR and uses an alternate splice site in the 3' coding region, which results in a frameshift, compared to variant 1. The resulting isoform (b) has a shorter and distinct C-terminus compared to isoform a.