

## Product datasheet for SC112321

### 5HT5A receptor (HTR5A) (NM\_024012) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	5HT5A receptor (HTR5A) (NM_024012) Human Untagged Clone
Tag:	Tag Free
Symbol:	5HT5A receptor
Synonyms:	5-HT5A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112321 sequence for NM_024012 edited (data generated by NextGen Sequencing)

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ATGGATTTACCAAGTGAACCTAACCTCCTTTTCCCTCTCCACCCCTCCCTTTGGAGACC
AACCCACAGCCTCGGCAAAGACGACCTGCGCCCCAGCTCGCCCTGCTCTCGGTCTTCGGA
GTGCTTATTCTCACCTTGTGGCTTTCTGGTGGCGGCGACGTTGCGCTGGAACCTGCTG
GTGCTGGCGACCATCCTCCGTGTACGCACCTTCCACCGGTGCCCAACCTGGTGGCA
TCCATGGCCGTCTCGGATGTCCTGGTGGCCGCGCTGGTCATGCCGCTGAGCCTGGTGAC
GAGCTGTCCGGGCGCCGCTGGCAGCTAGGTGGAGGCTGTGCCAGCTTTGGATCGCGTGC
GACGTGCTTTGCTGCACGGCCAGCATCTGGAACGTGACGGCCATAGCCCTGGACCGCTAC
TGGTCCATCACGCGCCACATGGAATACAGCTCCGCACCCGCAAGTGCCTCTCCAACGTC
ATGATCGCGCTCACCTGGGCACTCTCCGCTGTCATCTCTCTGGCCCCGCTGCTTTTTGGC
TGGGGAGAGAGCTACTCTGAGGGCAGCGAGGAGTGCCAGGTAAGCCGCGAGCCTTCTAC
GCCGTGTTCTCCACCGTAGGCGCCTTCTACCTGCCGCTCTGTGTGGTGTCTTTCGTGAC
TGGGAAGATCTACAAGGCTGCCAAGTTCGCGTGGGCTCCAGGAAGACCAATAGCGTCTCA
CCCATATCCGAAGCTGTGGAGGTGAAGGACTCTGCCAAACAGCCCCAGATGGTGTTCACG
GTCCGCCACGCCACCGTCACCTTCCAGCCAGAAGGGGACACGTGGCGGGGAGCAGAAGGAG
CAGCGGGCCGCCCTCATGGTGGGCATCCTCATTGGCGTGTTCGTGCTCTGCTGGATCCCC
TTCTTTCTCACCGAGCTCATCAGTCCCCCTGTCTCCTGTGACATCCCCGCCATCTGGAAA
AGCATCTTCTGTGGCTTGGCTACTCCAACCTCCTTTTAACCCCTGATCTATACGGCT
TTCAACAAGAAGTACAACAGCGCCTTCAAGAAGTCTTTTCTAGGCAACACTGA

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Clone variation with respect to NM\_024012.2  
12 t=>a



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_024012 unedited  
 GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGCACTTCCAGAACT  
 CCCCCTGGCCAGAGGTTGCAAACATCCGGATTGGCTCTGGGCACAGTGGCCGCCTTAA  
 GTCCTCTGAACCCCTTCTGCAAGTACCCAGGGCGGTCTCCTGACCCAGAGATGGAT  
 TTACAGTGAACCTAACCTCCTTTCCCTCTCCACCCCTCCCTTTGGAGACCAACCAC  
 AGCCTCGGCAAAGACGACTGCGCCCAAGCTCGCCCTGCTCTCGGTCTTCGGAGTGCTT  
 ATTCTCACCTTGGTGGCTTTCTGGTGGCGGCGACGTTTCGCTGGAACCTGCTGGTGCTG  
 GCGACCATCCTCCGTGTACGCACCTTCCACCGCTGCCCAACCTGGTGGCATCCATG  
 GCCGTCTCGGATGTCCTGGTGGCCGCGCTGGTCATGCCGTGAGCCTGGTGCACGAGCTG  
 TCCGGGCGCCGCTGGCAGCTAGGTGCGAAGCTGTGCCAGCTTTGGATCGCGTGGCAGCTG  
 CTTTGCTGCACGGCCAGCATCTGGAACGTGACGGGCATAGCCCTGGACCGCTACTGGTCC  
 ATCAGCGCCACTGGAATACACGCTCCGCACCGCAGGTGCGTCTCCAACGTCATGATCGC  
 GCTCACCTGGGCACTCTCGCTGCATCTCTGGCCCCGCTGCTTTTGGCTGGGAAGA  
 GAGTACTCTGAGGCAGCGAGGAGGCCAGATAACNCGCGAGCCTTCTAGCCCGGTCTTAC  
 GTAAGCGCTTCTACTGCGCTTGGTGGGCTCTTCTGTACCGAAAGACACAGGCTGGCAGT  
 TCCGCGTGGCTCAGGAGACAATAACGTCTACCATACCAACTGGGAGGGAGGACTTGCCA  
 AACCCAAAGGGTTACGGTCGCCGCGCACGNCCTT

**3' Read Nucleotide Sequence:**

>Forward primer walk for NM\_024012 unedited  
 CTCTGCTGGTACCCTTNTTTCNACCGACTCACATCCCCTCTGCTCCTGGACTCCCCGCT  
 CTGAAAGCATCTTCTGTGGCTGGCTACTCCAACCTCTTTAAACCCCTGATCTAT  
 ACGGCTTTCAACAAGAACTACAACAGCGCTTCAAGAATCTTTTCTAGGCAACTGA  
 GGGAGAGGACCAGGATTGAAAAAGTTTCTTCCATAATTCAGTGAATTCAGTTCAT  
 CCATTTCCCATCCCACCAACAGCCATGTGGACGGGATGAATCCTCACCATTCTCCAGG  
 GTCATCTTCAGAACTGCACTGGCCGCTTTTCCACCTCCTCAGTAGGAATATGACTCCTCA  
 TAGAGTTTTGGTGACATGATGTATCTAATTATCTACTATCCCTTTCTCTGTGCTGACAG  
 TCATGGTCTTTGCCCGCAAAGTGTCTTTCCTCCCAAATTCCTCTGGCATGGTGATCG  
 ACATTGTCTTAAAGAAGTCAAGGCAAATAAGAAGGAGGAGGTAACAATATGGGAGGT  
 TGAGATTGAATAGAAAAGTGAACAAGTATGATGTAGACCTCTGAGGGTAGGAGACCA  
 TAGTCCAGGCTTCTGGCACAGTCCCCATTTCAAATATCTCCTCTGTGGTCTAGTAC  
 ATATATCTAATACCGATGGNGTATGACCAAGAGTTGACCACAAAACACTGTCTCCAAA  
 TATATTAAGTATATAGTCTATCCATGAGAGCAGGGAATCTTAGCTTTAAGNNTTGT  
 TGTGGGCACCCACACCGACATACACCACACACACACTATGAAGAAGCAGGGTGTCT  
 AGCTAGCTAGNTTACTCCAAAATGCATCCCGTGACATGAACAGCACTGAGGNNTACTAC  
 TNCTTTCATTNT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_024012

**Insert Size:**

4250 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_024012.1</a> , <a href="#">NP_076917.1</a>
<b>RefSeq Size:</b>	1074 bp
<b>RefSeq ORF:</b>	1074 bp
<b>Locus ID:</b>	3361
<b>UniProt ID:</b>	<a href="#">P47898</a>
<b>Cytogenetics:</b>	7q36.2
<b>Domains:</b>	7tm_1
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Calcium signaling pathway, Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	The neurotransmitter serotonin (5-hydroxytryptamine, 5-HT) has been implicated in a wide range of psychiatric conditions and also has vasoconstrictive and vasodilatory effects. The gene described in this record is a member of 5-hydroxytryptamine (serotonin) receptor family and encodes a multi-pass membrane protein that functions as a receptor for 5-hydroxytryptamine and couples to G-proteins. This protein has been shown to function in part through the regulation of intracellular Ca <sup>2+</sup> mobilization. [provided by RefSeq, Jul 2008]