

## Product datasheet for MR222524

### Htr1b (NM\_010482) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Htr1b (NM_010482) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Htr1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222524 representing NM_010482 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGGAGGAGCAGGGTATTTCAGTGCGCCCGCCGCTCCCGCCGCTCCCAGACAGGGGTACCTCTCACCA  
ACCTCTCCCAACTGCAGCGCCGACGGCTACATTTACCAGGACTCCATCGCCCTGCCCTGGAAAGTCCT  
GCTGGTTGCTTTGTTGGCGCTCATCACCTTGCCACCACGCTCTCCAACGCTTTGTAATCGCTACGGTG  
TATCGGACCCGGAAGCTACACACCCCGGCTAACTACCTGATCGCCTCTCTGGCAGTCACTGACCTGCTCG  
TGCCATCCTGGTGATGCCATCAGCACCATGTACACGGTCACTGGACGCTGGACACTAGGCCAGGTGG  
CTGCGACTTCTGGCTGTGTCGGATATCACCTGTTGCACTGCTTCCATCATGCATCTCTGTGTCATCGCC  
CTGGACCGCTACTGGCCATCACCGATGCGGTGGAGTATTCTGCTAAAAGGACTCCCAAAAGGGCGGCCA  
TCATGATCGTGCTGGTGTGGGTCTTCTCCATCTCTATTTGCTGGCACCCCTTCTTCTGGCGTCAAGCCAA  
AGCAGAGGAGGAGATGCTGGACTGCTTTGTGAACACCGACCACGTCCTCTACACGGTCTACTCCACGGTG  
GGCGCTTTCTATTTACCCACCCTGCTCCTCATCGCCCTCTATGGCCGCATCTATGTGGAAGCCCGCTCTC  
GGATTTTGAACAGACACCCAACAAGACCGCAAGCGCTTGACCCGAGCCAGTTGATAACAGACTCCCC  
GGGATCCACATCCTCGTCACCTCCATTAACCTCCGGGCTCCGGACGTGCCAGTGAGTCCGGGTCTCCT  
GTGTACGTGAACCAAGTCAAAGTGCAGTCTCAGACGCCCTGCTGAAAAGAAGAACTCATGGCCGCTA  
GGGAGCGCAAAGCCACCAAGACCTAGGGATCATTTTAGGAGCATTTATTGTGTGTTGGCTGCCCTTCTT  
CATCATCTCCCTGGTGATGCCTATCTGTAAGGATGCCTGCTGGTTTACATGGCCATTTTGTACTTCTTC  
AATTGGTTAGGCTATCTTAACCTCCTCATCAACCCCATCATCTACACCATGTCCAATGAGGACTTCAAAC  
AAGCGTCCACAACTGATACGCTTTAAGTGCGCAGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR222524 representing NM\_010482  
 Red=Cloning site Green=Tags(s)

MEEQGIQCAPPPAASQTGVPLTNLSHNCSADGYIYQDSIALPWKVLVALLALITLATTLSNAFVIATV  
 YRTRKLHTPANYLIASLAVTDLLVSILVMPISTMYTVTGRWTLGQVVCFWLSSDITCCTASIMHLCVIA  
 LDRYWAITDAVEYSAKRTPKRAAIMIVLVVWFSSISLPPFFWRQAKAEEMLD CFVNTDHLVLYTVYSTV  
 GAFYLP TLLLIALYGRIVYEARSRILKQTPNKTKGRLTRAQLITDSPGSTSSVTSINSRAPDVPSESGSP  
 VYVNQVKVRVSDALLEKKKMAARERKATKTLGIILGAFIVCWLPFFIISLVMPICKDACWFHMAIFDFF  
 NWLGYLNSLINPIIYTMSNEDFKQAFHKLIRFKCAG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9019\\_a06.zip](https://cdn.origene.com/chromatograms/mm9019_a06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_010482

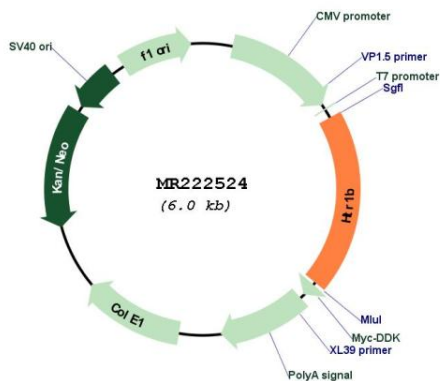
**ORF Size:** 1158 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>	<u><a href="#">NM_010482.2</a></u>
<b>RefSeq Size:</b>	1161 bp
<b>RefSeq ORF:</b>	1161 bp
<b>Locus ID:</b>	15551
<b>UniProt ID:</b>	<u><a href="#">P28334</a></u>
<b>Cytogenetics:</b>	9 44.61 cM
<b>MW:</b>	43.5 kDa
<b>Gene Summary:</b>	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. Arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways. Regulates the release of 5-hydroxytryptamine, dopamine and acetylcholine in the brain, and thereby affects neural activity, nociceptive processing, pain perception, mood and behavior. Besides, plays a role in vasoconstriction of cerebral arteries.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222524