

Product datasheet for **MG225019**

Htr3a (NM_013561) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Htr3a (NM_013561) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Htr3a
Synonyms:	5-HT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225019 representing NM_013561
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGGCTCTGCATCCCGCAGGTGCTGTTGGCCTTGTTCCCTTCCATGCTGACAGCCCCGGGAGAAGGCA
 GCCGGAGAGGGCCACCCAGGCCGAGATACCACCCAGCCTGCTCTACTAAGGCTGTGAGACCACCTCCT
 GGTAACCTACAAGAAGGGGGTGC GGCCCTGTGCGGGACTGGAGGAAGCCTACTACTGTCTCCATTGATGTC
 ATCATGTATGCCATCCTCAACGTGGATGAGAAGAACCAGGTTCTGACCACCTACATATGGTACCGGCAGT
 ACTGGACTGATGAGTTTCTGCAGTGGACTCCTGAGGACTTCGACAATGTCACCAAATGTCCATCCCCAC
 AGACAGCATCTGGGTCCCTGACATCCTCATCAATGAGTTTGTGGACGTGGGGAAGTCTCCGAACATTCT
 TATGTGTACGTGCATCATCGAGGTGAAGTTCAGAACTACAAGCCCTTGAATTGGTACCGCCTGTAGCC
 TTGACATCTACAACCTCCCTTTGATGTGCAGAACTGCTCTCTGACTTTCACCAGCTGGTCACACCAT
 CCAGGACATCAACATTACCTGTGGCGATCACCGAAGAAGTGAAGTCTGACAAGAGCATCTTCATAAAT
 CAGGGCGAGTGGGAGCTGCTGGAGGTGTTCCCCAGTTCAAGGAGTTCAGCATAGATATCAGTAACAGCT
 ATGCAGAAATGAAGTTCTACGTGATCATCCGCCGAGGCCTTTATTCTACGCAGTCAGCCTCTTGCTGCC
 CAGTATCTTCTCATGGTCGTGGACATTGTGGGCTTTTGCCTGCCCCGGACAGCGGTGAGAGAGTCTCT
 TTCAAGATCACACTCCTTCTGGGATACTCAGTCTTCTCATCATCGTGTGACACACTGCCAGCAACGG
 CCATCGGTACCCCTCATTGGTGTCTATTTTGTGGTGTGCATGGCTCTGCTAGTGATAAGCCTCGCTGA
 GACCATCTTATTGTGCGGCTGGTGATAAGCAGGACCTACAGCGGCCAGTACCTGACTGGCTGAGGCAC
 CTGGCTAGACAGAATAGCCTGGATACTCTGCCTAGGGGAGCAGCCTATGGCCATAGACCCCAAGCCA
 CCTTCCAAGCCAACAAGACTGATGACTGCTCAGGTTCTGATCTTCTTCCAGCCATGGGAACCACCTGCAG
 CCATGTTGGAGGACCTCAGGACTTGAGAGAAGACCCCAAGGGGCAGAGGTAGCCCTCTTCCACCACCAAGG
 GAGGCCTCGCTGGCTGTGCGCGTCTCTTGAAGAGCTATCCTCCATCCGCCACTTCTGGAGAAGCGGG
 ATGAGATGCGGGAGGTGGCAAGGGACTGGCTGCGGGTGGGATACGTGCTGGACAGGCTGCTGTTCCGCAT
 CTACCTGCTGGCTGTGCTCGCTTACAGCATCACCTGGTCACTCTCTGGTCCATTGGCATTATTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225019 representing NM_013561
 Red=Cloning site Green=Tags(s)

MRLCIPQVLLALFLSMLTAPGEGSRRRATQARDTTQPALLRLSDHLLANYKKGVRPVRDWRKPTTVSIVD
 IMYAILNVDEKNQVLTTYIWYRQYWTDEFLQWTPEDFDNVTKLSIPTDSIWVDPILINEFVDVGKSPNIP
 YVVVHHRGEVQNYKPLQLVTACSLDIYNFPFDVQNCSLTFTSWLHTIQDINITLWRSPEEVRSDKSIFIN
 QGEWELLEVPQFKEFSIDISNSYAEMKFYVIIRRRPLFYAVSLLLPSIFLMVVDIVGFCLPPDSGERVS
 FKITLLLGYSVFLIIVSDTLPATAIPTLIGVYFVVMALLVISLAETIFIVRLVHKQDLQRPVDPDLRH
 LVLDRIAWILCLGEQPMHRPPATFQANKTDDCSGSDLLPAMGNHCSHVGGPQDLEKTPRGRGSPPLPPPR
 EASLAVRGLLQELSSIRHFLEKRDEMREWARDWLRVGYVLDRLLFRIYLLAVLAYSITLVTLSIWHYS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_013561.2, NP_038589.2</p>
RefSeq Size:	<p>2089 bp</p>
RefSeq ORF:	<p>1470 bp</p>
Locus ID:	<p>15561</p>
UniProt ID:	<p>P23979</p>
Cytogenetics:	<p>9 A5.3</p>
Gene Summary:	<p>This is one of the several different receptors for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. This receptor is a ligand-gated ion channel, which when activated causes fast, depolarizing responses in neurons. It is a cation-specific, but otherwise relatively nonselective, ion channel. [UniProtKB/Swiss-Prot Function]</p>