

Product datasheet for **RG220624**

5 HT1F (HTR1F) (NM_000866) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	5 HT1F (HTR1F) (NM_000866) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	5 HT1F
Synonyms:	5-HT-1F; 5-HT1F; 5HT6; HTR1EL; MR77
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220624 representing NM_000866 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCATCCAAAATTCTGGTGTCCCTCACTCTGTCTGGGCTGGCACTGATGACAACAATCAACTCCC
TTGTGATCGTGCAATTATTGTGACCCGGAAGCTGCACCATCCAGCAATTATTTAATTTGTTCCCTTGC
AGTCACAGATTTTCTTGTGGCTGTCTGGTGTGATGCCCTCAGCATTGTGTATATTGTGAGAGAGAGCTGG
ATTATGGGGCAAGTGGTCTGTGACATTTGGCTGAGTGTGACATTACCTGCTGCACGTGCTCCATCTTGC
ATCTCTCAGTATAGCTTTGGATCGGTATCGAGCAATCACAGATGCTGTTGAGTATGCCAGGAAAAGGAC
TCCAAAGCATGCTGGCATTATGATTACAATAGTTTGGATTATATCTGTTTTATCTCTATGCCTCCTCTA
TTCTGGAGGCACCAAGGAAGTAGCAGAGATGATGAATGCATCATCAAGCAGCACCACATTGTTTCCACCA
TTTACTCAACATTTGGAGCTTTCTACATCCCCTGGCATTGATTTTATCCTTTACTACAAAATATATAG
AGCAGCAAAGACATTATACCACAAGAGACAAGCAAGTAGGATTGCAAAGGAGGAGGTGAATGGCCAAAGTC
CTTTTGGAGAGTGGTGAAGAAAGCACTAAATCAGTTTCCACATCCTATGTACTAGAAAAGTCTTTATCTG
ACCCATCAACAGACTTTGATAAAATTCATAGCACAGTGAAGTCTCAGGTCTGAATCAAGCATGAGAA
ATCTTGGAGAAGGCAAAGATCTCAGGTACAAGAGAACGGAAGCAGCCACTACCCTGGGATTAATCTTG
GGTGCATTTGTAATATGTTGGCTTCCTTTTTTTGTAAGAAGTATGTTGTTAATGTCGTGACAAAATGTA
AAATTTCTGAAGAAATGTCCAATTTTTGGCATGGCTTGGTATCTCAATTCCTTATAAATCCACTGAT
TTACACAATCTTTAATGAAGACTTCAAGAAAGCATTCCAAAAGCTTGTGCGATGTCGATGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220624 representing NM_000866
 Red=Cloning site Green=Tags(s)

MPSKILVSLTSLGLALMTTINSLVIAAIIIVTRKLLHPANYLICSLAVTDFLVAVLVMPFSIVYIVRESW
 IMGQVVDIWLSDITCCTCSILHLSAIALDRYRAITDAVEYARKRTPKHAGIMITIVWIIISVFISMPPL
 FWRHQGTSRDDECIKHDHIVSTIYSTFGAFYIPLALILILYYKIYRAAKTLYHKRQASRIAKEEVNGQV
 LLESGEKSTKSVSTSYVLEKSLSDPSTDFDKIHSTVRSRSEFKHEKSWRRQKISGTRERKAATTLGLIL
 GAFVICWLPFFVKELVNVCDKCKI SEEMSNFLAWLGYLNSLINPLIYITFNEDFKKAFQKLVRRC

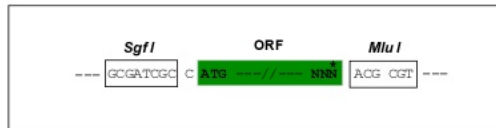
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1757_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_000866

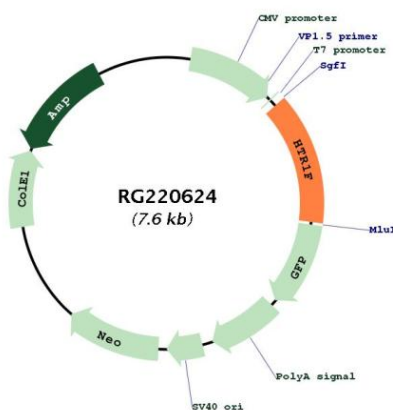
ORF Size: 1041 bp

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 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](#)

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:	<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:	NM_000866.3 , NP_000857.1
RefSeq Size:	3178 bp
RefSeq ORF:	1101 bp
Locus ID:	3355
UniProt ID:	P30939
Cytogenetics:	3p11.2-p11.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG220624