

Product datasheet for **RG232827**

5HT3E (HTR3E) (NM_001256614) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	5HT3E (HTR3E) (NM_001256614) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HTR3E
Synonyms:	5-HT3-E; 5-HT3c1; 5-HT3E
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG232827 representing NM_001256614
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTAGCTTTTCATTTTATCACGGGCGACCCACGCCCTGCCTTGGGGCCCTCTCATATAGGGAGCACA
 GGGTTGCTCTCCTTCATCTCACACATTCGATGTCCACTACAGGAAGGGGGTTACTTTACCATCAATTG
 CTCAGGGTTTGGCCAGCACGGGGCGGATCCCACTGCTCTGAATTCAGTGTTTAATAGAAAGCCCTCCGT
 CCGGTCACCAACATCAGCGTCCCAACCAAGTCAACATCTCCTTCGCGATGTCTGCCATCTAGATGTGG
 TTTGGGATAACCCATTTATCAGCTGGAACCCAGAGGAATGTGAGGGCATCACGAAGATGAGTATGGCAGC
 CAAGAACCTGTGGCTCCCAGACATTTTCATCATTGAACCTGTGCGTATCAAGGGCTGGTCAGAGGGAAGTC
 CCATCTCCTGGTAGCCACAGAGATCACAGTTTACCATTGGGGCCACTCATGGATGTGGATAAGACCCCAA
 AAGGCCTCACAGCATATGTAAGTAATGAAGGTCGCATCAGGATAAAGAAACCCATGAAGGTGGACAGTAT
 CTGTAACCTGGACATCTTCTACTCCCCTTCGACCAGCAGAAGTGCACACTCACCTTCAGCTCATTCTC
 TACACAGTGGACAGCATGTTGCTGGACATGGAGAAAGAAGTGTGGGAAATAACAGACGCATCCCGGAACA
 TCCTTCAGACCCATGGAGAATGGGAGCTCCTGGGCCTCAGCAAGGCCACCGCAAAGTTGTCCAGGGGAGG
 CAACCTGTATGATCAGATCGTGTCTATGTGGCCATCAGGCGCAGGCCAGTCTCTATGTCATAAACCTT
 CTCGTGCCAGTGGCTTTCTGGTTGCCATCGATGCCCTCAGCTTCTACCTGCCAGTGAAGTGGGAATC
 GTGTCCCATCAAGATAACGCTCCTGCTGGGCTACAACGCTTCTCTGCTCATGATGAGTGACTTGCTCCC
 CACCAGTGGCACCCCTCATCGGTGCTACTTCGCCCTGTGCCGTCCCTGATGGTGGGCAGCCTGCTG
 GAGACCATCTTCATCACCCACCTGCTGCAGTGGCCACCACCCACCCCAACCCCTGCCTCGTGGCTCC
 ACTCCCTGCTCCACTGCAACAGCCCGGGGAGATGCTGTCCACTGCGCCCAAGAGAAAATAAGGG
 CCGGGTCTCACCCACCCACCTGCCCGGTGTGAAGGAGCCAGAGGTATCAGCAGGGCAGATGCCGGGC
 CCTGCGGAGGCAGAGCTGACAGGGGCTCAGAATGGACAAGGGCCACGCGGAACACGAGGCCCAGAAGC
 AGCACTCAGTGGAGCTGTGGTTGCAAGTTCAGCCACGCGATGGACGCCATGCTCTCCGCCTCTACCTGCT
 TTTCATGGCTCCTCTATCATCACCGTCATATGCCTCTGGAACACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG232827 representing NM_001256614
 Red=Cloning site Green=Tags(s)

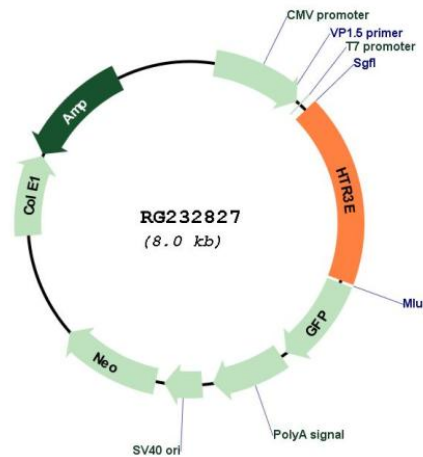
MLAFILSRATPRPALGPLSYREHRVALLHLTHSMSTTGRGVFTFTINCSGFGQHGADPTALNSVFNRKPF
 PVTNISVPTQVNI SFAMSAILDVVDNPFISWNPEECEGITKMSMAAKNLWLPDIFIIELCVSRAGQREV
 PSPGSHRDHSLPLGPLMDVDKTPKGLTAYVSNRIRYKPKMKVDSICNLIDIFYFPDQQNCTLTFSSFL
 YTVDSMLLDMEKEVWEITDASRNILQTHGEWELLGLSKATAKLSRGGNL YDQIVFYVAIRRRPSL YVINL
 LVPSGFLVAIDALSFYLPVKSGNRVFPKITLLLYNVFLLMMSDLLPTSGTPLIGVYFALCLSLMVGSL
 ETIFITHLLHVATTQPPPLPRWLHSLLLHCNSPGRCCPTAPQKENKGPGLTPHTLPGVKEPEVSAGQMPG
 PAEAEELTGGSEWTRAQREHEAQKQHSVELWLQF SHAMDAMLFRL YLLFMASSIITVICLWNT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001256614

ORF Size: 1446 bp

OTI Disclaimer: 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:	<u>NM_001256614.1, NP_001243543.1</u>
RefSeq Size:	1960 bp
RefSeq ORF:	1449 bp
Locus ID:	285242
UniProt ID:	<u>A5X5Y0</u>
Cytogenetics:	3q27.1
Protein Families:	Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane
Gene Summary:	This locus encodes a 5-hydroxytryptamine (serotonin) receptor subunit. The encoded protein, subunit E, may play a role in neurotransmission in myenteric neurons. Genes encoding subunits C, D and E form a cluster on chromosome 3. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Feb 2012]