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Product datasheet for RC228368

HTR3D (NM_001163646) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HTR3D (NM_001163646) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HTR3D
Synonyms:	5HT3D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC228368 representing NM_001163646
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGAAACACTCTCCAGGCCCCCCAGCCCTGGCCCTCCTCTCTCAGTCTCTGCTCACTACAGGAAATG
GCGACACTTTGATTATCAATTGCCCAGGCTTTGGCCAGCACAGGGTGGACCCTGCAGCCTTTCAAGCAGT
GTTTGACAGAAAGGCTATTGGTCCAGTCACCAACTACAGTGTCGCCACTCATGTCAACATCTCCTTCACC
TTGTCTGCCATCTGGAACTGCTATTCCAGGATTCACACCTTCAACTGCCACCATGCCCGGCCTTGGCACA
ATCAATTTGTGCAGTGGAACCCAGATGAATGCGGAGGCATCAAGAAGTCCGGCATGGCAACTGAGAACCT
ATGGCTTTCAGATGTCTTCATCGAGGAGTCTGTGGATCAGACACCTGCAGGTCTCATGGCTAGTATGTCA
ATAGTGAAGGCCACATCAAACACAATAAGCCAATGTGGGTGGTCAGCATCTGCAAACTGGACACCTTCTA
TTTCCCCTTCCATGGACAGAGCCCGGGCATGGAGAAGGATGTCCAGGAGCTTTCAAATACATCACAGAAC
CTCATTCAGAACAAGGAGGGAGTGGGTACTGCTGGGTATCCAAAAAAGAACAATAAAGGTGACCGTGGCC
ACTAACCAGTATGAACAAGCCATCTTCCATGTGGCCATCAGGCGCAGGTGCAGGCCCAGCCCCTACGTGG
TAAACTTTCTGGTGCCCAGTGGCATTCTGATTGCCATCGATGCCCTCAGTTTCTACCTGCCACTGGAAAG
TGGGAATTGTGCCCCATTCAAGATGACTGTTCTGCTGGGCTACAGCGTCTTCCTGCTCATGATGAATGAC
TTGCTCCCAGCCACTAGCACTTCATCACATGCTTCACTAGTGGCGCCTCTGGCCCTCATGCAGACCCCCT
TGCCTGCAGGTGTCTACTTCGCCCTGTGCCTGTCCCTGATGGTGGGCAGCCTGCTGGAGACCATCTTCAT
CACCCACCTGCTGCACGTGGCCACCACCCAGCCCCTACCTCTGCCTCGGTGGCTCCACTCCCTGCTGCTG
CACTGCACCGGCCAAGGGAGATGCTGTCCCACTGCGCCCCAGAAGGGAAATAAGGGCCCGGGTCTCACCC
CCACCCACCTGCCCGGTGTGAAGGAGCCAGAGGTATCAGCAGGGCAGATGCCAGGCCCTGGGGAGGCAGA
GCTGACAGGGGGCTCAGAATGGACAAGGGCCCAGCGGGAACACGAGGCCCAGAAGCAGCACTCGGTGGAG
CTGTGGGTGCAGTTCAGCCACGCGATGGACGCCCTGCTCTTCCGCCTCTACCTGCTCTTCATGGCCTCCT
CCATCATCACCGTCATATGCCTCTGGAACACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228368 representing NM_001163646
Red=Cloning site Green=Tags(s)

MQKHSPGPPALALLSQSLLTTGNGDTLIINCPGFGQHRVDPAAFQAVFDRKAIGPVTNYSVATHVNISFT
LSAIWNCYSRIHTFNCHHARPWHNQFVQWNPDECGGIKKSGMATENLWLSDVFIEESVDQTPAGLMASMS
IVKATSNTISQCGWSASANWTPSISPSMDRARAWRRMSRSFQIHHRTSFRTRREWVLLGIQKRTIKVTVA
TNQYEQAIFHVAIRRRCRPSPYVVNFLVPSGILIAIDALSFYLPLESGNCAPFKMTVLLGYSVFLLMMND
LLPATSTSSHASLVAPLALMQTPLPAGVYFALCLSLMVGSLLETIFITHLLHVATTQPLPLPRWLHSLLL
HCTGQGRCCPTAPQKGNKGPGLTPTHLPGVKEPEVSAGQMPGPGEAELTGGSEWTRAQREHEAQKQHSVE
LWVQFSHAMDALLFRLYLLFMASSIITVICLWNT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8061_b01.zip

Restriction Sites: SgfI-MluI

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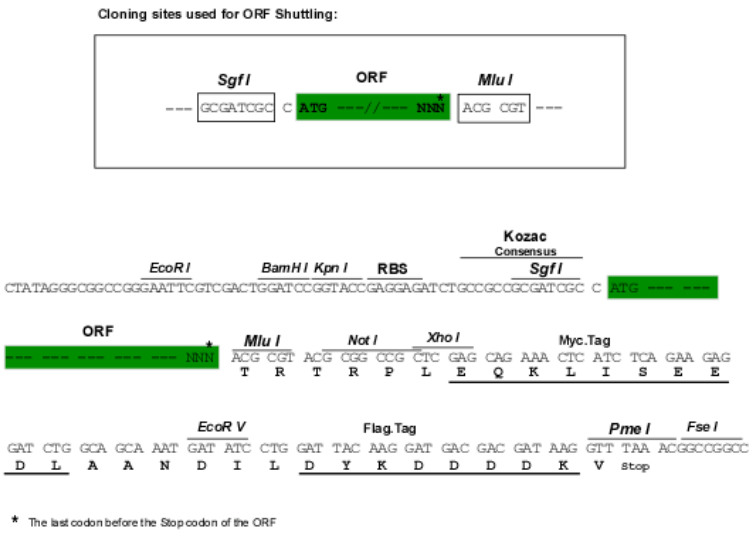
Cloning Scheme:



ACCN: NM_001163646

ORF Size: 1362 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:
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_001163646.2

RefSeq ORF: 1365 bp

Locus ID: 200909

UniProt ID: Q70Z44

Cytogenetics: 3q27.1

Protein Families: Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

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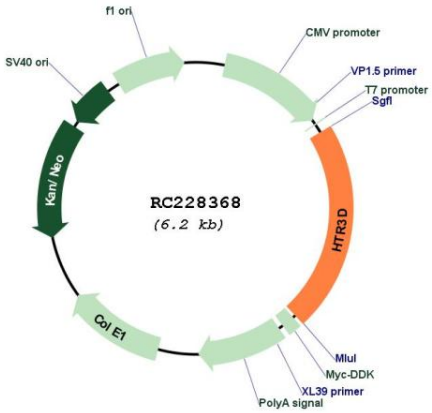
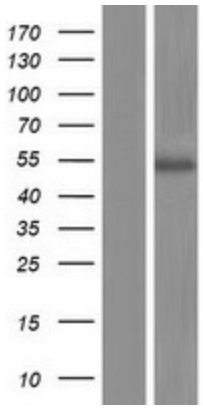
MW: 50 kDa

Gene Summary: The protein encoded this gene belongs to the ligand-gated ion channel receptor superfamily. This gene encodes subunit D of the type 3 receptor for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a mitogen and a hormone. This hormone has been linked to neuropsychiatric disorders, including anxiety, depression, and migraine. Serotonin receptors causes fast and depolarizing responses in neurons following activation. The genes encoding subunits C, D and E of this type 3 receptor form a cluster on chromosome 3. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2009]

Product images:



Circular map for RC228368



Western blot validation of overexpression lysate (Cat# [LY431396]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228368 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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