

Product datasheet for **RR212303**

Htr1a (NM_012585) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Htr1a (NM_012585) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Htr1a
Synonyms: 5HT1A; RAT5HT1A
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212303 representing NM_012585
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGATGTGTTTCAGTTTTGGCCAGGGCAACAACACCACAGCGTCCCAGGAGCCCTTTGGGACCGCGGCCA
 ACGTTACTAGCATCTCCGACGTGACCTTCAGCTACCAAGTGATCACCTCTCTGTTGCTGGTACTCTCAT
 TTTCTGCGCGGTGCTCGCAATGCCTGCGTGGTTGCTGCCATCGCCCTGGAGCGCTCCCTCCAGAATGTG
 GCCAATATCTCATCGGCTCCTTGGCGTTACTGATCTCATGGTATCAGTGCTGGTGTGCCCATGGCTG
 CTCTGTACCAGGTGCTCAACAAGTGGACCCTGGGCCAGGTCACCTGCGACCTGTTTATCGCCCTGGATG
 ACTGTGCTGCACCTCGTCCATCTGCACCTGTGCGCCATCGCGCTAGACAGGTAAGTGGGCTATCACCGAC
 CCTATAGACTATGTGAACAAAAGGACGCCCGCGCGCGCTGCGCTGATCTCGCTCACTTGGCTCATTG
 GCTTTCTCATCTCCATCCCGCCATGCTGGGCTGGCGCACCCCGGAAGACCGATCGGACCCCGACGCGTG
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 AAAAGAAGGGAGCAGGACACAGCTTAGGAACCTCGTCCGACCCGCAAGAGACTGTCAGGAAGTGG
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 GTGAGGACAGGTGACGACGAGGCCACCTGAGGTTGATCGAGGTGCACCGAGTGGGCAACTCCAAAGAGC
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 CAATGCTGAAGCAAAGCGCAAGATGGCCTTGGCCCGTAAAGGAAGACGGTGAAGACTCTGGGCATCATC
 ATGGGCACCTTCATCTCTGCTGGTGCCTTTTTTCATTGTGGCTCTGGTCTGCCTTTCTGTGAAAGCA
 GCTGCCACATGCCTGCGTTGTTGGGTGCCATAATTAAGTGGCTAGGCTACTCCAACCTCCCTGCTCAATCC
 GGTTATTTATGCTTATTTCAACAAAGACTTTCAAACGCTTTTAAAGAAGATAATCAAGTGAAGTTCTGCG
 CGCCGA

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 TGGATTACAAGGATGACGACGATAAGGTTTAA



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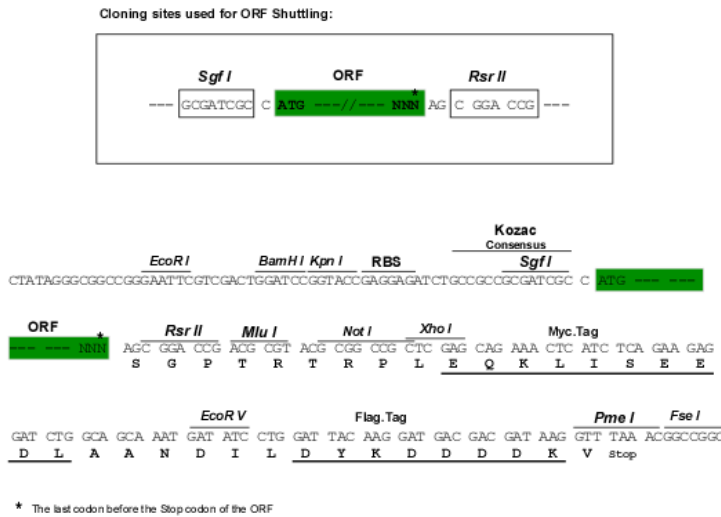
Protein Sequence: >RR212303 representing NM_012585
Red=Cloning site Green=Tags(s)

MDVFSFGQGNNTASQEPFGTGGNVTISDVTFYSYQVITSLLLGTLIFCAVLGNACVVAIALERSLQNV
 ANYLIGSLAVTDLMVSVLVLPMALYQVLNKWTLGQVTCDFIALDVLCTSSILHLCAIALDRYWAITD
 PIDYVNRKTRPRAAALISLTLWIGFLISIPMLGWRTPEDRSDPDACTISKDHGYTIYSTFGAFYIPLLL
 MLVLYGRIFRAARFRIRKTVRKVEKKGAGTSLGTSSAPPPKSLNGQPGSGDWRRCAENRAVGTPTCTNGA
 VRQGDDEATLEVIEVHRVGNSEHLPLPSESGSNSYAPACLERKNERNAEAKRKMALARERKTVKTLGII
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 RR

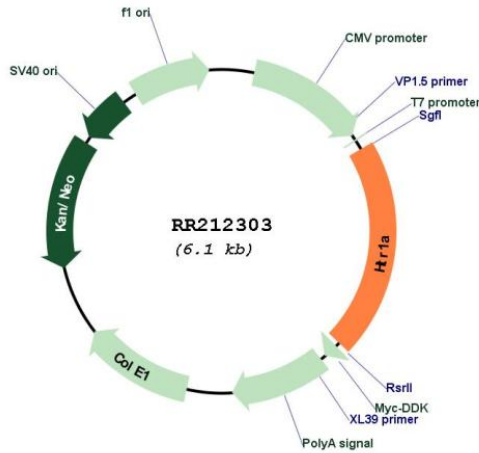
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_012585

ORF Size:	1266 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:	NM_012585.1 , NP_036717.1
RefSeq Size:	1269 bp
RefSeq ORF:	1269 bp
Locus ID:	24473
UniProt ID:	P19327
Cytogenetics:	2q13
MW:	46.4 kDa
Gene Summary:	regulates AMPA receptor channels in the prefrontal cortex; regulation is mediated via inhibition of Ca ²⁺ /calmodulin-dependent kinase II [RGD, Feb 2006]