

Product datasheet for **MR222559**

Htr2a (NM_172812) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Htr2a (NM_172812) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Htr2a
Synonyms:	E030013E04; Htr-2; Htr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222559 representing NM_172812
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAATCTCTGTGAAGACAATATCTCCCTGAGCTCAATCCAACTCCTTAATGCAATTAGGTGACG
 ACTCGAGGCTCTACCCTAATGACTTCAACTCCAGGGATGCTAACACTTCGGAAGCCTCGAACTGGACAAT
 TGATGCTGAAAACAGAACCAACCTCTCCTGCGAAGGGTACCTCCCACCGACATGCCTCTCCATTCTTCAT
 CTCAGGAAAAAACTGGTCTGCTTTATTGACAACTGTCGTGATTATTCTCACCATTGCGGGAAACATAC
 TGGTCATCATGGCAGTGTCCCTAGAGAAAAAGCTGCAGAAATGCCACCAACTATTTCTGATGTCACTTGC
 CATAGCTGATGCTGCTGGTTTCTTGTGTCATGCCCGTGTCCATGTTAACCATCCTGTATGGGTACCGG
 TGGCCTTTGCCAGCAAGCTCTGTGCCGTCTGGATTTACCTGGATGTGCTCTTCTCCACGGCGTCCATCA
 TGCACCTCTGCGCCATCTCCCTGGACCGCTACGTGGCTATCCAGAACCCATTACCATAGCCGCTTCAA
 CTCAGAACCAAGCCTTCTGAAAATCATTGCGGTGTGGACCATATCCGTAGGTATATCCATGCCAATC
 CAGTCTTCGGGCTACAGGATGATTCTGAAGTCTTTAAGGAAGGGAGCTGCCTGCTCGCCGATGACAAC
 TTGTCCTCATAGGCTCTTTGTGGCATTTCATCCCCCTAACCATCATGGTGATCACCTACTTCTCTGAC
 TATCAAGTCACTTCAGAAAAGGCCACCTTGTGTGTGAGTGACCTCAGCACTCGGGCCAAATATCTCTCC
 TTCAGTTCCTCCCTCAGAGTCTCTGTGATCAGAAAAGCTCTCCAGCGGTCCATCCACAGAGAGCCAG
 GCTCCTACGCAGGCCGAAGGACGATGCAGTCCATCAGCAACGAGCAAAAAGCATGCAAGGTGCTGGGCAT
 CGTGTCTTTCTGTTTGTGTAATGTGGTGCCATTCTTCATACCAATATCATGGCCGTCATCTGCAAA
 GAATCTGCAATGAAAATGTCATTGGAGCCCTGCTCAATGTGTTGTCTGGATTGGTTATCTCTCCTCAG
 CCGTCAACCCACTGGTATATACGTTGTTCAATAAACTTATAGGTCCGCTTCTCACGGTACACTCAGTG
 CCAGTACAAGGAGAACAGAAAGCCGCTGCAGTTAATTTTGTGAACTATACCAACATTGGCCTACAAG
 TCTAGTACGCTCCAGGTGGGACAAAAAAGAACTCACAGGAAGATGCTGAGCCGACAGCTAATGACTGCT
 CCATGGTTACTAGGGAACCAACTCGGAAGAGATGTGTACAGACAATATTGAAACCGTGAATGAAAA
 GGTTAGCTGTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222559 representing NM_172812
 Red=Cloning site Green=Tags(s)

MEILCEDNISLSSIPNSLMQLGDDSRLYPNDFNSRDANTSEASNWTIDAENRTNLSCEGYLPPTCLSLIH
 LQEKNSALLTTVVIIILTIAGNILVIMAVSLEKKLQONATNYFLMSLAIADMLLGLFVMPVSMILTILYGR
 WPLPSKLCVWIYLDVLFSTASIMHLCAISLDRYVAIQNPPIHHSRFRNSRTKAFKIIAVWTISVGI SMPI
 PVFGLQDDSKVFKEGSCLLADDNFVLIGSFVAFFIPLTIMVITYFLTIKSLQKEATLCVSDLSTRALKSS
 FSFLPQSSLSSEKLFQRSIHREPGSYAGRRTMQSISNEQKACKVLGIVFFLFVVMWCPFFITNIMAVICK
 ESCNENVIGALLNVFVWIGYLSAVNPLVYTLFNKTYRSAFSRYIQCYKENRKPLQLILVNTIPTLAYK
 SSQLQVQGKNSQEDAEP TANDCSMVTLGNQHSEEMCTDNIETVNEKVSCV

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

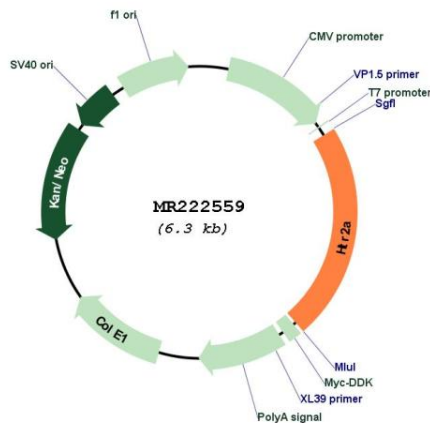
Restriction Sites:

Sgfl-MluI

RefSeq: [NM_172812.3](#)
RefSeq Size: 2971 bp
RefSeq ORF: 1416 bp
Locus ID: 15558
UniProt ID: [P35363](#)
Cytogenetics: 14 39.37 cM
MW: 53.3 kDa

Gene Summary: G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for various drugs and psychoactive substances, including mescaline, psilocybin, 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI) and lysergic acid diethylamide (LSD). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors. Beta-arrestin family members inhibit signaling via G proteins and mediate activation of alternative signaling pathways. Signaling activates phospholipase C and a phosphatidylinositol-calcium second messenger system that modulates the activity of phosphatidylinositol 3-kinase and promotes the release of Ca(2+) ions from intracellular stores. Affects neural activity, perception, cognition and mood. Plays a role in the regulation of behavior, including responses to angiogenic situations and psychoactive substances. Plays a role in intestinal smooth muscle contraction, and may play a role in arterial vasoconstriction. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222559