

Product datasheet for **MR206203**

Kiss1r (NM_053244) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kiss1r (NM_053244) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kiss1r
Synonyms: Gpr54; KiSS-1; kiSS-1R
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR206203 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCACCGAGGCGACATTGGCTCCCAATGTGACCTGGTGGGCTCCGTCCAACGCTTCAGGATGCCAG
 GCTGCGGTGTCAACGCCTCGGATGACCCAGGCTCTGCGCCAAGGCCCTGGATGCCTGGCTGGTTCCCT
 GTTTTTCGCTACACTCATGTTGCTGGGCTGGTCGGAACTCATTGGTCATCTACGTTATCTGCCGCCAC
 AAGCACATGCAGACAGTTACCAACTTCTACATCGCTAACCTGGCTGCCACAGACGTCACCTTCTACTGT
 GCTGCGTGCCCTTACCAGCACTCTCTACCCGCTGCCCGCTGGGTGCTGGGAGACTTCATGTGCAAATT
 CGTCAACTACATCCAGCAGGTCTCGGTGCAAGCCACATGTGCCACTCTGACGGCCATGAGTGTGGACCGC
 TGGTATGTGACTGTGTTCCCGCTGCGTGCACTTACCAGCCGCACTCCGCGCTGGCCCTGGCTGTACGCC
 TCAGCATCTGGGTGGGTCAGCAGCTGTGTCCGCCCGGTGCTGGCCCTGCACCGCTGTGCGCAGGGCC
 TCGCACCTACTGCAGCGAGGCGTTTCCAGCCGCGCCCTGGAGCGCGCCTTCGCGCTCTACAACCTGCTG
 GCTCTATATCTGCTGCCGCTGCTCGCCACTGCGCCTGTACGGCGCCATGTGCGCCACCTGGGCCGTG
 CGGCTGTACGCCCCGACCCACTGACGGCGCCCTGCAGGGACAGCTGCTAGCACAGCGCGCCGGAGCAGT
 GCGCACCAAGGTCTCCCGGCTGGTGGCCGCTGTCTGCTCTTCGCCCGCTGCTGGGGCCCGATCCAG
 CTGTTCTGGTGCTTCAAGCCCTGGGCCCTCGGGGCTGGCACCCCTGAAGCTATGCCGCTACGCGG
 TCAAGATCTGGGCTCACTGCATGTCTACAGCACTCGGCGCTCAATCCGCTGCTCTATGCCTTCTGGG
 TTCACACTTCAGACAGGCCTTCTGCCGCTGTGCCCTGTGCCGCAACGCCAGCGCGGCCCCACACG
 TCAGCGCACTCGGACCGAGCTGCAACTCACACTGTGCCGACAGCCGTGCTGCGCACCTGTGCGGATCA
 GGAGCCCGGAGCCTGGGAACCCTGTGGTGCCTCGCCCTGCGCTCAGAGTGAACGCACTGCCTCACTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206203 protein sequence
 Red=Cloning site Green=Tags(s)

MATEATLAPNVTWWAPSNASGCPGCGVNASDDPGSAPRPLDAWL VPLFFATLMLLGLVGNSLVIYVICRH
 KHMOTVTNFYIANLAATDVTFLLCCVPFTALL YPLPAWVLGDFMCKFVNYIQQVSVQATCATLTAMSVD
 WYVTVFPLRALHRRTPRLALAVLSI WVGSAAVSAPVLALHRLSPGPRTYCEAFPSRALERAFALYNLL
 ALYLLPLLATCACYGAMLRHLGRAAVRPAPTDGALQGQLLAQRAGAVR TKVSR LVAAVLLFAACWGPIQ
 LFLVLQALGPSGAWHPRS YAAYAVKIWAHCMSYNSALNPLLYAFLGSHFRQAF CRVCCCRQRQRPH
 SAHSDRAATHVPHSRAAHPVRI RSPEPGNPVVRSPCAQSERTASL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_053244

ORF Size: 1191 bp

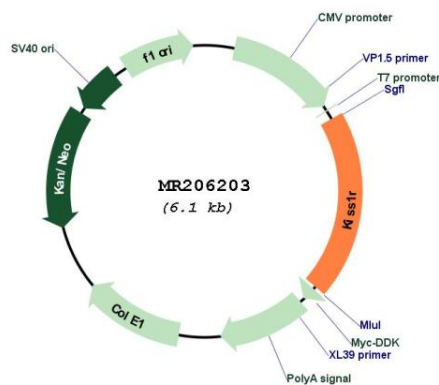
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:**
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_053244.5](#)
- RefSeq Size:** 3163 bp
- RefSeq ORF:** 1191 bp
- Locus ID:** 114229
- UniProt ID:** [Q91V45](#)
- Cytogenetics:** 10 C1
- MW:** 43.1 kDa
- Gene Summary:** Receptor for metastin (kisspeptin-52 or kp-52), a C-terminally amidated peptide of KiSS1. KiSS1 is a metastasis suppressor protein. Activation of the receptor inhibits cell proliferation and cell migration, key characteristics of tumor metastasis. The receptor is essential for normal gonadotropin-released hormone physiology and for puberty. The hypothalamic KiSS1/KiSS1R system is a pivotal factor in central regulation of the gonadotropic axis at puberty and in adulthood. Analysis of the transduction pathways activated by the receptor identifies coupling to phospholipase C and intracellular calcium release through pertussis toxin-insensitive G(q) proteins.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206203