

Product datasheet for SC120221

GPCR MRGX2 (MRGPRX2) (NM_054030) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPCR MRGX2 (MRGPRX2) (NM_054030) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPCR MRGX2
Synonyms:	MGRG3; MRGX2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_054030, RT-PCR generated
 TTCTGAGCATGGATCCAACCACCCGGCCTGGGGAACAGAAAGTACAACAGTGAATGGAA
 ATGACCAAGCCCTTCTTCTGCTTTGTGGCAAGGAGACCCTGATCCCGGTCTTCTGATCC
 TTTTCATTGCCCTGGTTGGGCTGGTAGGAAACGGGTTTGTGCTCTGGCTCCTGGGCTTCC
 GCATGCGCAGGAACGCCTTCTCTGTCTACGTCCTCAGCCTGGCCGGGGCCGACTTCTCT
 TCCTCTGCTTCCAGATTATAAATTGCCTGGTGTACCTCAGTAACTTCTTCTGTTCCATCT
 CCATCAATTTCCCTAGCTTCTTACCACCTGTGATGACCTGTGCCTACCTTGCAGGCCTGA
 GCATGCTGAGCACCGTCAGCACCGAGCGCTGCCTGTCCGTCTGTGGCCATCTGGTATC
 GCTGCCCGCCCCAGACACCTGTCAGCGGTCGTGTGTCTGCTCTGGGCCCTGTCCC
 TACTGCTGAGCATCTTGAAGGGAAGTTCTGTGGCTTCTATTTAGTGATGGTACTCTG
 GTTGGTGTGAGACATTTGATTTTCATCACTGCAGCGTGGCTGATTTTTTTATTCATGGTTC
 TCTGTGGGTCCAGTCTGGCCCTGCTGGTACAGGATCCTCTGTGGCTCCAGGGTCTGCCAC
 TGACCAGGCTGTACCTGACCATCCTGCTCACAGTCTGGTGTTCCTCCTCTGCGGCTGC
 CCTTTGGCATTAGTGGTTCCTAATATTATGGATCTGGAAGGATTCTGATGTCTTATTTT
 GTCATATTTCATCCAGTTTTCAGTTGCTCCTGTCATCTCTTAACAGCAGTGCCAACCCATCA
 TTTACTTCTTCGTGGGCTCTTTTAGGAAGCAGTGGCGGCTGCAGCAGCCGATCCTCAAGC
 TGGCTCTCCAGAGGGCTCTGCAGGACATTGCTGAGGTGGATCACAGTGAAGGATGCTTCC
 GTCAGGGCACCCCGGAGATGTCGAGAAGCAGTCTGGTGTAG



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_054030 unedited
 TTGGGCAAATTCGGGATTTGAAACTATCATATAGGCGGCCGCCAGTGTGATGGATATCT
 GCAGAATTCGGCTTTTCTGAGCATGGATCCAACCAACCCCGCCTGGGGAACAGAAAGTAC
 AACAGTGAATGGAATGACCAAGCCCTTCTTCTGCTTTGTGGCAAGGAGACCCTGATCCC
 GGTCTTCTGATCCTTTTCATTGCCCTGGTTGGCTGGTAGGAAACGGGTTTGTGCTCG
 GCTCCTGGGCTTCCGCATGCGCAGGAACGCCTTCTGTCTACGTCTCAGCCTGGCCGG
 GGCCGACTTCTCTTCCCTCTGCTTCCAGATTATAAATTGCCTGGTGTACCTCAGTAACCT
 CTCTGTTCATCTCCATCAATTTCCCTAGCTTCTTACCACCTGTGATGACCTGTGCCTA
 CCTTGCAGGCCTGAGCATGCTGAGCACCCGTGAGCACCCGAGCGCTGCCTGTCCGCTCTGT
 GCCCATCTGGTATCGCTGCCGCCGCCAGACACCTGTCAGCGGTGCGTGTGTGCTGCTGCT
 CTGGGCCCTGTCCCTACTGCTGAGCATCTTGAAGGGAAGTTCTGTGGCTTCTTATTTAG
 TGATGGTGACTCTGGTTGGTGTGAGACATTTGATTTCACTACTGCAGCGTGGCTGATTTT
 TTTATTATGTTCTCTGTGGGTCAGTCTGGCCCTGCTGGTCAGGATCCTCTGTGGCTC
 CAGGGGTCTGCCACTGACCAGGCTGTACCTGACCATCCTGCTCACAGTGTGGTGTCC
 TCCTCTGCGGCCCTGCCCTTGGCATTAGTGGTTCCTAATATATGATTCTGGAAGATTC
 TGATGTCTATTTTGTATATTCATCCAGTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_054030 unedited
 NGGCGCCATTGGNGATAGGCAACTTGCCAGGGCCAGTAAAGCACTGGGNGAGGTCACA
 GGGCAGCCACCCGGGCTCTGTTCCAGAAACAGCTATGACCGCGGCCCAATCTAGAGTCG
 ACAAGCTTGATATCGGTACCGAGCTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAA
 TTCGGCTTCTACACCAGACTGCTTCTCGACATCTCCGGGGTGCCTGACGGAAGCATCCT
 TCACTGTGATCCACCTCAGCAATGTCCTGCAGAGCCCTCTGGAGAGCCAGCTTGAGGATC
 GGCTGCTGCAGCCGCCACTGCTTCTAAAAGAGCCACGAAGAAGTAAATGATGGGGTTG
 GCACTGCTGTTAAGAGATGACAGGACAACCTGAAACTGGATGAATATGACAAAATAAGACA
 TCAGAATCCTTCCAGATCCATAATATTAGGAACCACTGAATGCCAAAGGGCAGGCCCGAG
 AGGAAGAACACCAGCACTGTGAGCAGGATGGTCAGGTACAGCCTGGTCAGTGGCAGACCC
 CTGGAGCCACAGAGGATCCTGACCAGCAGGGCCAGACTGGACCCACAGAGAACCATGAAT
 AAAAAATCAGCCACGCTGCAGTGATGAAATCAAATGTCTGACACCAACCAGAGTACCA
 TCACTAAATAAGAAGCCACAGAACTTCCCTTCCAAGATGCTCAGCAGTAGGGACAGGGCC
 CAGAGCATGACACACACGACCGCTGACAGGTGTCTGGGGCGCGGCAGCGATACCAGATG
 GGCCACAGGACGGACAGGCAGCGCTCGGTGCTGACAGTGCTCANCATGCTCAGGCCTGCA
 AGGTAGGCACAGTGCATCACAGTGGTGGAGAAGCTAGGGGAATTGATTGGAGATG

Restriction Sites:

Please inquire

ACCN:

NM_054030

Insert Size:

1700 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_054030.2](#), [NP_473371.1](#)

RefSeq Size: 2130 bp

RefSeq ORF: 993 bp

Locus ID: 117194

UniProt ID: [Q96LB1](#)

Cytogenetics: 11p15.1

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: Mast cell-specific receptor for basic secretagogues, i.e. cationic amphiphilic drugs, as well as endo- or exogenous peptides, consisting of a basic head group and a hydrophobic core (PubMed:25517090). Recognizes and binds small molecules containing a cyclized tetrahydroisoquinoline (THIQ), such as non-steroidal neuromuscular blocking drugs (NMBDs), including tubocurarine and atracurium. In response to these compounds, mediates pseudo-allergic reactions characterized by histamine release, inflammation and airway contraction (By similarity). Acts as a receptor for a number of other ligands, including peptides and alkaloids, such as cortistatin-14, proadrenomedullin N-terminal peptides PAMP-12 and, at lower extent, PAMP-20, antibacterial protein LL-37, PMX-53 peptide, beta-defensins, and complanadine A. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.