

Product datasheet for **SC127953**

MRGX1 (MRGPRX1) (NM_147199) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRGX1 (MRGPRX1) (NM_147199) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRGX1
Synonyms:	GPCR; MGRG2; MRGX1; SNSR4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127953 sequence for NM_147199 edited (data generated by NextGen Sequencing)

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ATGGATCCAACCATCTCAACCTTGACACAGAAGTACACCAATCAACGGAAGTGGAG
ACTCTTTGCTACAAGCAGACCTTGAGCCTCACGGTGTGACGTGCATCGTTCCCTTGTC
GGGCTGACAGGAAACGCGTTGTGCTCTGGCTCCTGGGCTGCCGATGCCAGGAACGCC
TTCTCCATCTACATCCTCAACTGGCCGAGCAGACTTCTCTTCTCAGCGGCCGCTT
ATATATCCCTGTAAAGCTTCATCAGTATCCCCATACCATCTCTAAAATCCTCTATCCT
GTGATGATGTTTTCTACTTTGCAGGCCTGAGCTTTCTGAGTGCCGTGAGCACCAGCGC
TGCCTGTCGGTCTGTGGCCATCTGGTACCGCTGCCACCGCCACACACCTGTCAGCG
GTGGTGTGTGCTCTGTGGCCCTGTCCCTGCTGCGGAGCATCCTGGAGTGGATGTTA
TGTGGCTTCTGTTCAGTGGTGTGATTCTGCTTGGTGTCAAACATCAGATTTTCATCACA
GTCGCGTGGCTGATTTTTTATGTGTGGTTCTCTGTGGTCCAGCCTGGTCTGTGATC
AGGATTCTCTGTGGATCCCGAAGATACCGCTGACCAGGCTGTACGTGACCATCCTGCTC
ACAGTACTGGTCTTCTCCTCTGTGGCCTGCCCTTTGGCATTTCAGTTTTTCTATTTTTA
TGGATCCACGTGGACAGGGAAGTCTTATTTTGTATGTTTCATCTAGTTTCTATTTTCTG
TCCGCTTTAACAGCAGTGCCAACCCATCATTACTTCTTCGTGGGCTCCTTTAGGCAG
CGTCAAAATAGGCAGAACCTGAAGCTGGTTCTCCAGAGGGCTCTGCAGGACGCGTCTGAG
GTGGATGAAGGTGGAGGGCAGCTTCTGAGGAAATCCTGGAGCTGTCCGGAAGCAGATTG
GAGCAGTGA

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Clone variation with respect to NM_147199.3
138 a=>g



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_147199 unedited
 GTTGGCGCGCAAAGTACGCGGATTTTGTAAACACGTATTTTCATGTAAGGGNCGGAACCGG
 CAATTCGGCATTGCAACATGGCATCCAACCATCTCAACCTTGGGCACAGAACTGACACC
 AATCAACGGAAGTGGAGAGACTTTTGTACAAGCAGACCTTGGAGCTCACGGTGTGCTGAC
 GTGCATCGTTTCCCTTGTGCGGCTGACAGGAAACGCGGTTGTGCTCTGGCTCCTGGGTTT
 TTGCATGCGCAGGAACGCCTTCTCCATCTACATCCTCAACTTGGCCGACAGACTTCTCT
 CTTCTCAGCGGCGCCTTATATATTCCCTGTTAAGCTTATCATAGTATCCCCCATACCAT
 CTCTAAAATCCTCTATCCTGTGATGATGTTTTCTACTTTGCAGGCTGAGCTTTCTGAG
 TGCCGTGAGCACCGAGCGCTGCCTGTCCGTCTGTGGCCATCTGGTACCGATGCCACCG
 TCCACACACCTGTCAGCGGTGGTGTGTCTCTGGCCCTGTCCCTGCTGCAGAG
 CATCTGGAGTGGATGTTATGTGGCTTACTGTCCAGGGATGCTGATTCTGCTTGGTGGTC
 AAACATCAATTTAATCCAGTCCCCTGGCTGAATTTTTAAGGGGGGTCCAATGTGGGTCC
 CAGCTGGCCCTGGTATTGAGAATCTTTGGGTATCCGAAAAAACCCGTACCAGGTTT
 TTCTTTACCTTTGGGTAACAAAAAGGGGTTCCCCCTGGGGCCCGCCCTTTTGA
 ATAAAGTTTCCCCTTTTTAAGGGCCCCCGGACGGGAAAACTTTTTTTGGGCGGGC
 GCCTTGTATTTTTCCGGGCGCCTTAAAAAAAGGGCCCCCCTTTTTTTTTTTTTT
 TT

3' Read Nucleotide Sequence:

>OriGene 3' genomic read for NM_147199 unedited
 CAGTGGCGCCATAGGGTATGCGCAACTCCCAGGNCCAGTAAAGCACTGGGNNAGGGTC
 ACAGGGTAGCCACCCGGGTATCTGTTTCCAGGAAACAGCTATGACCGCGGCCGCAATCTAG
 AGTCGACAAGCTTGATATCGGTACCAGATCTGAATTCGGCTTTTCTCACTGCTCCAATC
 TGCTTCCGACAGCTCCAGGATTTCTCAGGAAGCTGCCCTCCACCTTCCACCTCAG
 ACGCGTCTGCAGAGCCCTCTGGAGAACCAGCTTCAGGTTCTGCCTATTTTGACGCTGCC
 TAAAGGAGCCACGAAGAAGTAAATGATGGGGTTGGCACTGCTGTTAAGAGCGGACAGGA
 AAATAGAAACTAGATGAACATGACAAAATAAGACTTCCCTGTCCACGTGGATCCATAAAA
 ATAGGAAAAACTGAATGCCAAAGGGCAGGCCACAGAGGAGGAAGACCACTACTGTGAGCA
 GGATGGTCACGTACAGCTGGTACGCGGTATCTTCCGGGATCCACAGAGAATCCTGATCA
 GCAGGACCAGGCTGGACCCACAGAGAACCACACATAAAAAATCAGCCACGCGACTGTGA
 TGAATCTGATGTTTGACACCAAGCAGAATCAGCACCCTGAACAGGAAGCCACATAACA
 TCCACTCCAGGATGCTCCGACGAGGGACAGGGCCAGAGCAGGACACACACCACCGCTG
 ACAGGTGTGTGGGGCGGTGGCAGCGGTACCATATGGGCCACAAGACGGACAGGCAGCGC
 TCGGTGCTCACGGCACTCAAAAAGCTCAGGCCTGNCAAAGTAGAAAACATCTCACAGATA
 GAAGATTTTAAAGATGTATGGGGGATACTGATGAAAGCTACAG

Restriction Sites:

Please inquire

ACCN:

NM_147199

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](#)

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:	<u>NM_147199.2</u> , <u>NP_671732.2</u>
RefSeq Size:	1215 bp
RefSeq ORF:	969 bp
Locus ID:	259249
UniProt ID:	<u>Q96LB2</u>
Cytogenetics:	11
Protein Families:	Druggable Genome, GPCR, Transmembrane
Gene Summary:	Orphan receptor. Probably involved in the function of nociceptive neurons. May regulate nociceptor function and/or development, including the sensation or modulation of pain. Potently activated by enkephalins including BAM22 (bovine adrenal medulla peptide 22) and BAM (8-22)(PubMed:26582731). BAM22 is the most potent compound and evoked a large and dose-dependent release of intracellular calcium in stably transfected cells. G(alpha)q proteins are involved in the calcium-signaling pathway. Activated by the antimalarial drug, chloroquine. May mediate chloroquine-induced itch, in a histamine-independent manner. [UniProtKB/Swiss-Prot Function]