

Product datasheet for **RG211487**

MRGX1 (MRGPRX1) (NM_147199) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRGX1 (MRGPRX1) (NM_147199) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MRGX1
Synonyms:	GPCR; MGRG2; MRGX1; SNSR4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211487 representing NM_147199 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCCAACCATCTCAACCTTGGACACAGAAGTACACCAATCAACGGAAGTGGAGACTCTTTGCT
ACAAGCAGACCTGAGCCTCACGGTGTGACGTGCATCGTTTCCCTTGTGGGCTGACAGGAAACGCAGT
TGTGCTCTGGCTCCTGGGCTGCCGATGCGCAGGAACGCCTTCTCCATCTACATCCTCAACTTGGCCGA
GCAGACTTCTCTTCTCAGCGCCGCCTTATATATTCCCTGTTAAGCTTCATCAGTATCCCCATAACCA
TCTCTAAAATCCTCTATCCTGTGATGATGTTTTCTACTTTGCAGGCCTGAGCTTCTGAGTGCCGTGAG
CACCGAGCGCTGCCTGTCCGTCTGTGGCCCATCTGGTACCGCTGCCACCGCCCCACACCTGTACGG
GTGGTGTGTGCTCTGCTTGGGCCCTGTCCCTGTGCGGAGCATCCTGGAGTGGATGTTATGTGGCTTCC
TGTTTCAAGTGGTGTGATTCTGCTTGGTGTCAAACATCAGATTTTATCACAGTCCGCTGGCTGATTTTTT
ATGTGTGGTTCTCTGTGGGTCCAGCCTGGTCTGCTGATCAGGATTCTGTGGATCCCGGAAGATACCG
CTGACCAGGCTGTACGTGACCATCCTGCTCACAGTACTGGTCTTCTCCTCTGTGGCCTGCCCTTTGGCA
TTCAGTTTTTCTATTTTTATGGATCCACGTGGACAGGAAGTCTATTTTGTATGTTTCTAGTTTC
TATTTTCTGTCCGCTCTAACAGCAGTGCCAACCCATCATTTACTTCTTCTGGGCTCCTTTAGGCAG
CGTCAAAATAGGCAGAACCTGAAGCTGGTCTCCAGAGGGCTCTGCAGGACGCTGTGAGGTGGATGAAG
GTGGAGGCGAGCTTCTGAGGAAATCCTGGAGCTGTCCGGAAGCAGATTGGAGCAGAGCGGACCG

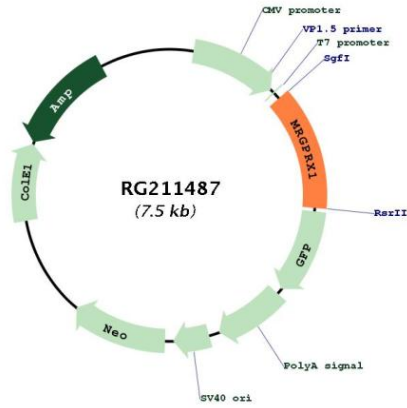
AGCGGACCGACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAA



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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_147199.3 , NP_671732.3
RefSeq Size:	1190 bp
RefSeq ORF:	969 bp
Locus ID:	259249
UniProt ID:	Q96LB2
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]

Product images:



Circular map for RG211487