

Product datasheet for **RR203454**

Mrgprx1 (NM_172158) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mrgprx1 (NM_172158) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mrgprx1
Synonyms:	Mrgg2; Mrgprc11; Snsr1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR203454 representing NM_172158 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTTTGTGTTCTCAGGGACACTACTGGAAGATTTGTGAGCATGGATCCAACCATCTCATCCCTCAGTA
CAGAATCTACAACACTGAATAAACTGGTCATCCCAGTTGCAGGCCAATCCTCACCTGTCCTTCTGGT
CCCCATCATCACCTGCTTGGATTGGCAGGAAACACCATTGTACTCTGGCTCTTGGGATCCGCATGCGC
AGGAAAGCCATCTCAGTCTACGTCTCAACCTGTCTCTGGCAGACTCCTTCTTCTCTGCTGCCATTTTA
TTGACTCTCTGATGCGGATCATGAACTTCTATGGCATCTATGCCATAAATTAAGCAAAGAAATCTTAGG
CAATGCAGCAATCATTCCCTATATCTCAGGCCTGAGCATCCTCAGTGCTATCAGCACGGAGCGCTGCCTG
TCTGTATTGTGGCCAATCTGGTACCCTGCCACCGCCCAAGAAACATGTCAGCTATTATATGTGTTCTAA
TCTGGGTTCTGTCCTTCTCATGGGCATCCTTACTGGTCTTCTCAGGATCCTGGGTGAGACTCACCA
TCATTTGTGGAAAAATGTTGACTTTATTGTAAGTGCATTTCTGATTTTTTTATTTATGCTTCTCTTTGGG
TCCAGTCTGGCGCTACTGGTGGATCCTCTGTGGTCCAGACGAAACCACTGTCCAGCTGTACGTTA
CAATCTCTCACAGTGATGGTCTACCTCATCTGCGGCCTGCCTCTCGGGCTTTACTTGTCTCTGTATA
TTGGTTTGGGATCCATTTACATTATCCCTTTTGTACATTTACCAAGTTACTGTGCTCCTGTCTGTGTG
AACAGCTCTGCCAACCCATCATTTACTTCTTGTAGGTCCTTTAGGCACCGTAAAAAGCATCGGTCCC
TCAAAATGGTTCTTAAGAGGGCTCTGGAGGAGACTCCTGAGGAGGATGAATATACAGACGCCATGTTCA
GAAACCACTGAGATCTCAGAAAGGAGATGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR203454 representing NM_172158
Red=Cloning site Green=Tags(s)

MVCVLRDTTGRFVSM DPTISSLSTESTTLNKTGH PSCRPIILTSLFLVPIITLLGLAGNTIVLWLLGFRMR
 RKAISVYVLNLSLADSFLLCCHFIDSLMRIMNFYGIYAHKLSKEILGNAAIIPYISGLSILSAISTERCL
 SVLWPIWYHCHRPRNMSAIIICVLIWVLSFLMGILDWFFSGFLGETHHHLWKNVDFIVTAFILFLMLLFG
 SSLALLVRILCGSRRKPLSRLYVTISLTMVYVICGLPLGLYLFLLYWFGIHLHYPFCHIQVTVLLSCV
 NSSANPIIYFLVGSFRHRKKHRS LKMVLKRALEETPEEDEYTD SHVQKPTEISERRC

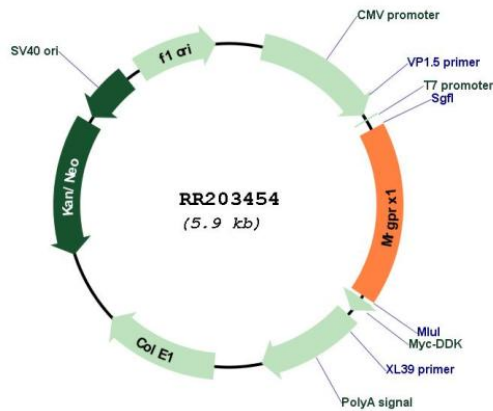
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_172158

ORF Size: 1011 bp

OTI Disclaimer:	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:	<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_172158.2 , NP_750845.2
RefSeq Size:	1014 bp
RefSeq ORF:	1014 bp
Locus ID:	282547
UniProt ID:	Q8R4G1
Cytogenetics:	1q22
MW:	38.6 kDa
Gene Summary:	G-protein coupled receptor; may be involved in regulation of sensory neurons [RGD, Feb 2006]