

Product datasheet for **MR220022**

Gpr174 (NM_001177782) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Gpr174 (NM_001177782) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Gpr174
 Synonyms: Gm376; Lypsr3
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR220022 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTGATAATTTTACATGTAACAAGACAGATGGAGACAATACAGATTTCCGGTACTTCATTTATGCAG
 TGACATACACTGTTATTCTTGTGCCAGGTCTTATAGGGAACATATTAGCCTTATGGGTATTTTACGGCTA
 TATGAAAGAAACAAAAGGGCTGTGGTATTTATGATAAACCTAGCCATTGCTGACTTATTACAGATTCTC
 TCTCTGCCACTGAGGATCTTTACTACTTGAACCATGACTGGCCATTTGGTCTGGTCTCTGCATGTTTT
 GTTTCTACCTGAAATATGTAACATGTATGCCAGCATCTACTTCTGGTCTGCATCAGTGTGCGAAGATT
 TTGGTTTCTCATGTACCCCTTTCGTTTCAATGACTGCAAACAGAAATATGACTTGTATATCAGCATTATT
 GGCTGGCTGATCATCTGCCTTGCCTGCCTGCTCTTTCCTCTCCTCAGAACCAATGATGATACTCCAGGTA
 ACAGAACCAATGCTTTGTGGATCTTCCCTATCAGGAATGTTAATCTGGCCCAATCTGTTGCCATGATAAC
 TATCGGAGAGGTGGTGGGTTTGTACTCCTCTTATGATTGTTTTATACTGTACCTGGAAGACAGCTTTG
 TCATTACAAAATAAATATCCCATTTCTCAACATCTTGGAGAGAAAAAGAAAGCCCTGAAGATGATTCTGA
 CCTGTGCAGGGGTGTTTCTAGTTTGTCTTGTACCTTATCACTTCAGCTTTCCTTTAGATTTCTGGTTAA
 GTCCAATGAAATTAAGAGTTGCTTGGCAGAAGAGTGATTCTAATATTTTATTCTGTGGCCCTGTGTCTG
 GCAAGCCTGAACCTCTTGTGACCCAGTTATATATTTTACCCTAATGAGTTCAGAAGACGCCCTTT
 CAAGACAAGATTTGCCTGATAACATCCAACCTCCATACAAAATCATACAAAATTGCAAGTAACCATGCCAC
 TTCTACCGTGGCAGCTGAACTATGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR220022 protein sequence
Red=Cloning site Green=Tags(s)

MTDNFTCNKTDGDNTDFRYFIYAVTYTVILVPGLIGNILALWVFGYMKETKRAVVFMINLAIADLLQIL
 SLPLRIFYLNDHWPFGPLCMFCFYLYKVVNMYASIIYFLVCISVRRFWFLMYPFRFNDCKQKYDLYSISII
 GWLIICLACLLFLLRTNDDTPGNRTKCFVDLPIRNVNLAQSVAMITIGEVEVGFVPLMIVLYCTWKAL
 SLQNKYPISQHLGEKKKALKMILTCAGVFLVCFVPYHFSFPLDFLVKSNEIKSCFARRVILIFHSVALCL
 ASLNSCLDPVIYYFTTNEFRRLSRQDLPDNIQLHTKSYKIASNHATSTVAAELC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001177782

ORF Size: 1005 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:

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_001177782.1](#), [NP_001171253.1](#)

RefSeq Size: 4955 bp

RefSeq ORF: 1008 bp

Locus ID: 213439

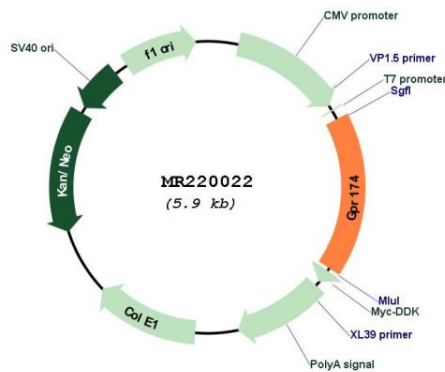
UniProt ID: [Q3U507](#)

Cytogenetics: X D

MW: 38.8 kDa

Gene Summary: Putative receptor for purines coupled to G-proteins.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220022