

## Product datasheet for **MR205619**

### Gpr4 (NM\_175668) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr4 (NM_175668) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpr4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205619 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACAACAGCACGGGCACAGGGGAGGGCTGCCATGTGGACTCTCGAGTGGACCACCTCTCCACCAT  
CTCTCTACATCTTCGTATCGGGTGGGGCTGCCACCAACTGCCTGGCCCTGTGGGCAGCCTACCGGCA  
GGTGCCCAACACAATGAGCTGGGCGTCTACCTGATGAACTTGAGCATTGCAGACCTGTGTACATCTGC  
ACTTTGCCGCTGTGGTTCGACTACTTCTCCACCATGACAACCTGGATCCACGGCCCTGGCTCCTGCAAGC  
TCTTTGGCTTTCATCTTACAGCAACATCTATATCAGCATCGCCTTCTGTGCTGCATCTCCGTGGACCG  
CTACCTGGCTGTGGCTCATCCTCTGCGCTTTCACGCGCCTGCGCCGGTCAAGACAGCAGTGGCTGTGAGC  
TCTGTGGTCTGGGCCACGGAGCTGGGCGCAATTCAGCACCGCTCTCCATGATGAGCTGTTTCGTGATC  
GCTACAACCACACCTTCTGCTTTGAGAAGTTCCCATGGAGCGTTGGTGGCCTGGATGAATCTGTACCG  
CGTCTTTGTGGGCTTCTCTTCCCTGGGCACTCATGTTGCTGTGCTACCGTGGCATCCTGAGGGCAGTG  
CAGAGCAGTGTGCCACCGAGCGCCAGGAGAAAGTCAAGATCAAACGTCTGGCCCTGAGCCTCATCGCCA  
TTGTGCTGGTGTGCTTTGCGCTTACCATGCTCTCCTGCTGTCTCGCAGCGCCGTCTACCTGGGCCGGCC  
CTGGGACTGTGGCTTCGAGGAGCGAGTCTTTCTGCTACCACAGCTCCCTGGCCTTACCAGCCTCAAT  
TGTGTGGCTGACCCATCCTCTACTGCCTGGTCAACGAGGGTGCCCGCAGTATGTGGCCAAGGCCCTGC  
ACAACCTCCTCCGCTTCTGGCCAGCAACAAGCCCAGGAGATGGCCAATGCTTCCCTCACCTGGAGAC  
ACCTTGAACCTCAAGAGGAGCACCACCGCAAGTCGTCGGGGCTGTCTGGGCAGTGCCTCCGACTGCC  
CAGGGGGACCAGGTGCCACTGAAGGTGCTGCTGCCCGGCACAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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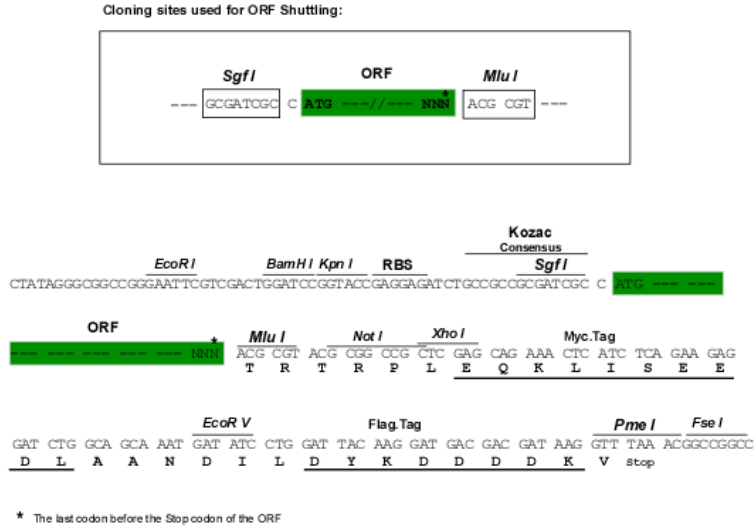
**Protein Sequence:** >MR205619 protein sequence  
Red=Cloning site Green=Tags(s)

MDNSTGTGEGCHVDSRVDHLFPPSLYIFVIGVGLPTNCLALWAAYRQVRQHNELGVYLMNLSIADLLYIC  
 TLPLWVDYFLHHDNWIHGPGSCKLFGFIFYSNIYISIAFLCCISVDRYLAVAHPLRFARLRRVKTAVAVS  
 SVVWATELGANSAPLFHDELFRDRYNHTFCFEKFPMERWVWAMNLYRVFVGFLFPWALMLLCYRGILRAV  
 QSSVSTERQEKVKIKRLALSLIAIYLVCFAPYHALLLSRSAYVLRPWDCGFEEVRF SAYHSSLAFTSLN  
 CVADPILYCLVNEGARSYAKALHNLLRFLASNKPQEMANASLTLETPLTSKRSTTGKSSGAVWAVPPTA  
 QGDQVPLKVLPPAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_175668

**ORF Size:** 1098 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\\_175668.4](#), [NP\\_783599.1](#)

**RefSeq Size:** 2884 bp

**RefSeq ORF:** 1098 bp

**Locus ID:** 319197

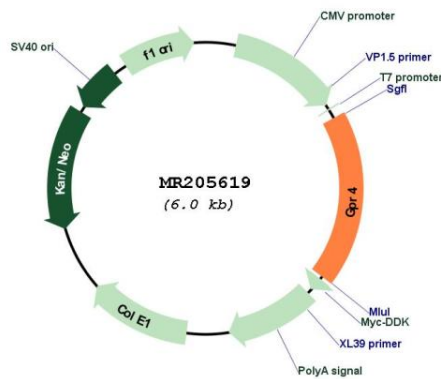
**UniProt ID:** [Q8BUD0](#)

**Cytogenetics:** 7 A3

**MW:** 41.1 kDa

**Gene Summary:** Proton-sensing receptor coupled to several G-proteins, including G(s), G(13) and G(q)/G(11) proteins, leading to cAMP production.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR205619