

## Product datasheet for MR220759

### Gpr21 (NM\_177383) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Gpr21 (NM_177383) Mouse Tagged ORF Clone                          |
| Tag:                      | Myc-DDK   |
| Symbol:                   | Gpr21   |
| Synonyms:                 | C230004C13Rik   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >MR220759 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACCTCCACCTGGGATGGTAATCAGAGCAGCCATCCTTTCTGTCTTCTGGCACTGGGCTACTGGAAA  
CTGTCAGGTTCTGTCTTTTGAAGTGCTGATTATTGTCTTTCTAACTGTATTGATTATTTCTGGCAACAT  
CATTGTGATTTTTGTGTTTCACTGTGCACCTCTGTTGAACCATCATTCTACAAGTATTTTTATTTCAGACA  
ATGGCATATGCTGACCTCTGGTTGGGTAAGCTGCCTGGTCCCTTCTTATCACTCCTCTACTACCCCTC  
TTCCGATTGAGGAGGCCATGACTTGCCAAGTATTTGGTTTTGTAGTGTCAGTTCTGAAGAGTATCTCTAT  
GGCTTCTCTGGCCTGTATCAGCATTGATAGATATATTGCCATCACTAAGCCTTTAACCTATAATACCCCTG  
GTTACTCCCTGGAGACTACGCCTCTGTATTTTTCTGATTTGGCTGTATTCCACCCTGGTCTTCTGCCTT  
CCTTCTCCACTGGGTAACCCGGATATCATGGAGATGTATTTCAAGTGTGTCAGAGTCTGGCACAC  
CAACTCTACTTCACATTGTTTCATCGTGATGATGCTGTACGCCCCAGCTGCCCTCATTGTCTGCTTCACG  
TATTTCAACATCTTCCGCATCTGCCAGCAGCACACAAAAGAAATCAGCGAAAGGCAAGCCCGATTTCAGCA  
GCCAGAATGGGGAGACTGGGAACCCAGACCTGTCCAGATAAGCGCTATGCCATGGTCCATTTCAGAAAT  
CACCAGTGTGTTTTATGCTCTGTTGGTGGCATAACATCTACTTCTTGTGGAGAGTTCTACTGGCTGC  
AGCAGCCGCTTGCATCCTTCTGACTACCTGGCTTGTATTAGTAACAGTTTCTGCAACTGTATCATT  
ACAGTCTCTCCAACAGTGTTCAGCGAGGACTAAAGGGCTTTCAGGGTCTCTGTACTTCTTGTGC  
AAGTCACACCACAGCAAGGACCCTTACACAGTTAGGTGCAAAGGACCCCTAATGGATCTCATATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >MR220759 protein sequence  
Red=Cloning site Green=Tags(s)

MNSTWDGNQSSHPFCLLALGYLETVRFCLLEVLIIIVFLTVLIISGNIIVIFVFHCAPLLNHSTSYFIQT  
MAYADLLVGVSCLVPSLSLLYYPLPIEEAMTCQVFGFVSVLKSISMASLACISIDRYIAITKPLTYNTL  
VTPWRLRLCIFLIWLYSTLVFLPSFFHWGKPGYHGDVFWCAESWHTNSYFTLFIVMMLYAPAALIVCFT  
YFNIFRICQHTKEISERQARFSSQNGETGEPQTCQDKRYAMVLFRITSVFYVWLWPYIIYFLLESSTGC  
SSRLASFLTTLWLAISNSFCNCIIYSLNSYVQRGLKGLSGSLCTSCASHTTAKDPYTVRCKGPPNGSHI

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\_177383

**ORF Size:** 1050 bp

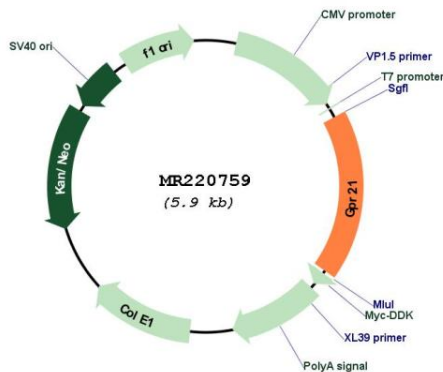
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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](#)

**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\\_177383.4](#), [NP\\_796357.1](#)
- RefSeq Size:** 2297 bp
- RefSeq ORF:** 1050 bp
- Locus ID:** 338346
- UniProt ID:** [Q8BX79](#)
- Cytogenetics:** 2 B
- MW:** 39.5 kDa
- Gene Summary:** Orphan receptor.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR220759