

## Product datasheet for MC213052

### Gpr68 (NM\_175493) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gpr68 (NM\_175493) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Gpr68  
**Synonyms:** BB131428; Ogr1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC213052 representing NM\_175493  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAACATCACTACAGAAACTCCTCACTATCTTGCCCCATCGACCACCATCCACCAGACTAG  
CCCCAGTGGTCTATGTGACCGTGTGGTGGGCTTCCCAGCCAACCTGCCTGTCCCTCTACTTCGGGTA  
CTTGCAGATCAAGCCCCGAATGAGCTGGGAGTGTACCTGTGTAACCTGACCATTGCAGACCTGTTCTAT  
ATCTGTCACTTCCCTTCTGGCTGCAGTACGTGCTTCAGCACGACTGGTCCCATGGTGACCTATCCT  
GCCAGGTGTGGCATCCTCCTATGAGAACATTTACATCAGCGTGGGCTTCCCTGTGCATCTCCAT  
CGACCGCTACCTGGCTGTGGCCACCCCTTCCGCTTCCACCAGTTCGACCCCTGAAGGCAGCCGTGGGT  
GTCAGTGTGCTCATCTGGGCCAAGGAGCTGCTGACCAGCATCTACTTCCATCAATCACAAGGAGGTCATTG  
AGGACGAGGACCAGCACCGAGTCTGCTTTGAGCATTACCCTATCCAGGCCTGGCAGCGTAGCATCAACTA  
CTACCGCTTCCCTGGTGGGCTTTCTTCCCCATCTGCCTGCTGTGGCTCCTACCAGGGCATCTGCGG  
GCTGTGCGCCGACGCCACGGCACAGAAAGAGCCGCAAGGACCAGATTACGCGCTGGTGTCTCAGCACCG  
TGGTCATCTTCTGGCTTGTCTTCTACCCTACCAGTGTCTGTCTGGTACGAGCCTCTGGGAGAGAAA  
CTGTGAGTTTGCCAAGAGCATCTTCAACGTCTATCACTTCTCCCTCCTCCTCACCAGCTTCAACTGTGTA  
GCTGACCCGGTGTACTGCTTTGTGTCAGTGAGACCACTCACAGGACCTAGCCCCCTCCGAGGAGCCT  
GCCTAGCTGTCTTACCTGCTCTAGGACAAGCAGGGCCAGGAGGCTACCCTCTGGGTGCCCTGAGGC  
CTCTGGGAAAAGTGGGGCCAGGGCCGAGGAACCTGAATTGTTAAACCAAGCTCCACTCAGCCTTCCAGACC  
CCTAGCTCACTGGGAGTGGGAGGCCCTCCACAGTGGGTTGGC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



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<b>ACCN:</b>	NM_175493
<b>Insert Size:</b>	1098 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_175493.4</a> , <a href="#">NP_780702.1</a>
<b>RefSeq Size:</b>	3241 bp
<b>RefSeq ORF:</b>	1098 bp
<b>Locus ID:</b>	238377
<b>UniProt ID:</b>	<a href="#">Q8BFQ3</a>
<b>Cytogenetics:</b>	12 E
<b>Gene Summary:</b>	<p>Proton-sensing receptor involved in pH homeostasis. May represents an osteoblastic pH sensor regulating cell-mediated responses to acidosis in bone. Mediates its action by association with G proteins that stimulates inositol phosphate (IP) production or Ca(2+) mobilization. The receptor is almost silent at pH 7.8 but fully activated at pH 6.8. Function also as a metastasis suppressor gene in prostate cancer.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>