

## Product datasheet for MR220141

### Gpr68 (NM\_001177673) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr68 (NM_001177673) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpr68
Synonyms:	BB131428; Ogr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220141 representing NM_001177673 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAACATCACTACAGAAACTCCTCACTATCTTGCCCCATCGACCACACCATCCACCAGACTAG  
CCCCAGTGGTCTATGTGACCGTGTGGTGGGCTTCCCAGCCAAGTGCCTGTCCCTCTACTTCGGGTA  
CTTGCAGATCAAGGCCGGAATGAGCTGGGAGTGTACCTGTGTAACCTGACCATTGCAGACCTGTTCTAT  
ATCTGTTCACTTCCCTTCTGGCTGCAGTACGTGCTTCAGCACGACTGGTCCCATGGTGACCTATCCT  
GCCAGGTGTGGCATCCTCCTATGAGAACATTTACATCAGCGTGGGCTTCTCTGCTGCATCTCCAT  
CGACCGCTACCTGGCTGTGGCCACCCCTTCCGCTTCCACCAGTTCGACCCCTGAAGGCAGCCGTGGGT  
GTCAGTGTGCTCATCTGGGCAAGGAGCTGCTGACCAGCATCTACTTCCATCACAAGGAGGTCATTG  
AGGACGAGGACCAGCACCGAGTCTGCTTTGAGCATTACCCATCCAGGCCTGGCAGCGTAGCATCAACTA  
CTACCGCTTCTGGTGGGCTTTCTTCCCCATCTGCCTGCTGCTGGCCTCTACCAGGGCATCTGCGG  
GCTGTGCGCCGACGCCACGGCACAGAAAGAGCCGCAAGGACCAGATTACGCGGCTGGTGTGCTCAGCACCG  
TGGTCATCTTCTGGCTTGTCTTCTACCCTACCAGTGTGCTGCTGCTGGTACGACGCTCTGGGAGAGAAA  
CTGTGAGTTTGCCAAGAGCATCTTCAACGTCTATCACTTCTCCCTCCTCCTCACCAGCTTCAACTGTGTA  
GCTGACCCGGTGTACTGCTTTGTGCTGAGACCACTCACAGGACCTAGCCCCCTCCGAGGAGCCT  
GCCAGCTGTCTTACCTGCTCTAGGACAAGCAGGGCCAGGGAGGCTACCCCTCTGGGTGCCCTGAGGC  
CTCTGGGAAAAGTGGGGCCAGGGCAGGAACCTGAATTGTTAAACCAAGCTCCTCACTCAGCCTTCCAGACC  
CCTAGCTCACTGGGAGTGGGAGGCCCTCCACAGTGGGGTTGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR220141 representing NM\_001177673  
Red=Cloning site Green=Tags(s)

MGNITTENSSLSCPIDHTIHQTLAPVVVYTVLVVGF PANCLSLYFGYLQIKARNELGVVLCNLTIADLFY  
 IC SL PFWLQYVLQHDDWSHGDLSCQVCGILLYENIYISVGFLCCSIDRYLAVAHPFRFHQFRTLKAAVG  
 VSVLIWAKELLTSIYFLNHKEVIEDQHRVCFEHYPIQAWQRSINYYRFLVGF LFPICLLLAS YQGI LR  
 AVRRSHGTQKSRKQIQRLV LSTVVI FLACFLPYHVLLLVRSLWERNCEFAKSI FNVYHF SLLLTSFNCV  
 ADPVLYCFVSETHRDLARLRGACLAVL TCSRTSRAREAYPLGAPEASGKSGAQGEPELLTKLHSAFQT  
 PSSLGVGGPSTVGLA

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\_001177673

**ORF Size:** 1095 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\\_001177673.1](#), [NP\\_001171144.1](#)

**RefSeq Size:** 2938 bp

**RefSeq ORF:** 1098 bp

**Locus ID:** 238377

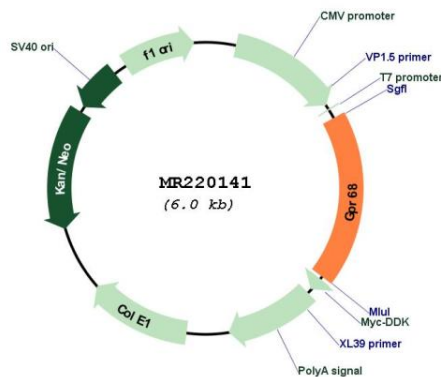
**UniProt ID:** [Q8BFQ3](#)

**Cytogenetics:** 12 E

**MW:** 41.2 kDa

**Gene Summary:** 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]

### Product images:



Circular map for MR220141