

## Product datasheet for **MG220720**

### Gpr68 (NM\_001177674) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gpr68 (NM\_001177674) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Gpr68  
**Synonyms:** BB131428; Ogr1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG220720 representing NM\_001177674  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAACATCACTACAGAAACTCCTCACTATCTTGCCCCATCGACCACCATCCACCAGACTAG  
CCCCAGTGGTCTATGTGACCGTGTGGTGGGCTTCCCAGCCAACGCCTGTCCCTCTACTTCGGGTA  
CTTGCAGATCAAGGCCCGAATGAGCTGGGAGTGTACCTGTGTAACTGACCATTGCAGACCTGTTCTAT  
ATCTGTTCACTTCCCTTCTGGCTGCAGTACGTGCTTCAGCACGACTGGTCCCATGGTGACCTATCCT  
GCCAGGTGTGGCATCCTCCTATGAGAACATTTACATCAGCGTGGGCTTCTCTGCTGCATCTCCAT  
CGACCGCTACCTGGCTGTGGCCACCCCTTCCGCTTCCACCAGTCCGCACCCTGAAGGCAGCCGTGGGT  
GTCAGTGTGCTCATCTGGGCAAGGAGCTGCTGACCAGCATCTACTTCCCAATCACAAGGAGGTCATTG  
AGGACGAGGACCAGCACCGAGTCTGCTTTGAGCATTACCCATCCAGGCCTGGCAGCGTAGCATCAACTA  
CTACCGCTTCCCTGGTGGGCTTCTTCCCCATCTGCCTGCTGCTGGCCTCTACCAGGGCATCTGCGG  
GCTGTGCGCCGACGCCACGGCACAGAAAGCCGCAAGGACCAGATTACGCGCTGGTGTCTCAGCACCG  
TGGTCATCTTCTGGCTTGTCTTCTACCCTACCACGTGCTGCTGCTGGTACGACGCTCTGGGAGAGAAA  
CTGTGAGTTTGCCAAGAGCATCTTCAACGTCTATCACTTCTCCCTCCTCCTCACCAGCTTCAACTGTGTA  
GCTGACCCGGTGTACTGCTTTGTGTCAGTGAGACCACTACAGGGACCTAGCCCCCTCCGAGGAGCCT  
GCCTAGCTGTCCCTACCTGCTCTAGGACAAGCAGGGCCAGGGAGGCTACCCTCTGGGTGCCCTGAGGC  
CTCTGGGAAAAGTGGGGCCAGGGCCGAGGAACCTGAATTGTTAAACCAAGCTCCTCACTCAGCCTTCCAGACC  
CCTAGCTCACTGGGAGTGGGAGGCCCTCCACAGTGGGGTTGGCC

**ACGGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG220720 representing NM\_001177674  
 Red=Cloning site Green=Tags(s)

MGNITTENSSLSCPIDHTIHQTLAPVVVYTVLVVGF PANCLSLYFGYLQIKARNELGVYLCNLTIADLFY  
 ICSLPFWLQYVLQHDDWSHGDLSCQVCGILLYENIYISVGFLCCSIDRYLAVAHPFRFHQFRTLKAAVG  
 VSVLIWAKELLTSIYFLNHKEVIEDQHRVCFEHYPIQAWQRSINYYRFLVGF LFPICLLLAS YQGILR  
 AVRRSHGTQKSRKDQIQRLV LSTVVI FLACFLPYHV LLLV RSLWERNCEFAKSI FNVYHF SLLLTSFNCV  
 ADPVLYCFVSETHRDLARLRGACLAVL TCSRTSRAREAYPLGAPEASGKSGA QGEEPELLTKLHSAFQT  
 PSSLGVGGPSTVGLA

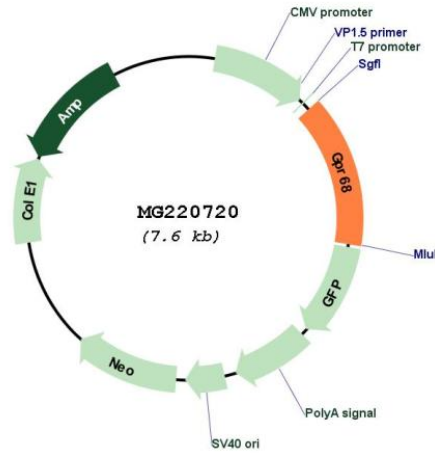
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001177674

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1095 bp   |
| <b>OTI Disclaimer:</b>        | 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>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <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_001177674.2</a>  |
| <b>RefSeq Size:</b>           | 3120 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>          | 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]  |