

Product datasheet for MR220137

Gpr68 (NM_175493) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Gpr68 (NM_175493) 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: >MR220137 representing NM_175493
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGAACATCACTACAGAAACTCCTCACTATCTTGCCCCATCGACCACCATCCACCAGACTAG
 CCCCAGTGGTCTATGTGACCGTGTGGTGGGCTTCCCAGCCAAGTGCCTGTCCCTCTACTTCGGGTA
 CTTGCAGATCAAGGCCGGAATGAGCTGGGAGTGTACCTGTGTAACCTGACCATTGCAGACCTGTTCTAT
 ATCTGTTCACTTCCCTTCTGGTGCAGTACGTGCTTCAGCACGACTGGTCCCATGGTGACCTATCCT
 GCCAGGTGTGGCATCCTCCTATGAGAACATTTACATCAGCGTGGGCTTCTCTGCTGCATCTCCAT
 CGACCGCTACCTGGCTGTGGCCACCCCTTCCGCTTCCACCAGTTCGACCCCTGAAGGCAGCCGTGGGT
 GTCAGTGTGCTCATCTGGGCAAGGAGCTGCTGACCAGCATCTACTTCTCAATCACAAGGAGGTCATTG
 AGGACGAGGACCAGCACCAGTCTGCTTTGAGCATTACCCATCCAGGCTGGCAGCGTAGCATCAACTA
 CTACCGCTTCTGGTGGGCTTCTTCCCCATCTGCCTGCTGCTGGCCTCTACCAGGGCATCTGCGG
 GCTGTGCGCCGACGCCAGGCACACAGAAGAGCCGCAAGGACCAGATTACGCGGCTGGTGTCTCAGACCG
 TGGTCATCTTCTGGCTGCTTTCTACCCTACCAGTGTGCTGCTGTTACGAGCCTCTGGGAGAGAAA
 CTGTGAGTTTGCAAGAGCATCTCAACGTCTACTTCTCCCTCCTCCTCACCAGCTTCAACTGTGTA
 GCTGACCCGGTGTACTGCTTTGTGTCAGTGAGACCACTCACAGGACCTAGCCCCCTCCGAGGAGCCT
 GCCTAGCTGTCTTACCTGCTCTAGGACAAGCAGGGCCAGGAGGCTACCCTCTGGGTGCCCTGAGGC
 CTCTGGGAAAAGTGGGGCCAGGGCAGGAACCTGAATTGTTAAACCAAGCTCCTACTCAGCCTTCCAGACC
 CCTAGCTCACTGGGAGTGGGAGGCCCTCCACAGTGGGGTTGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR220137 representing NM_175493
Red=Cloning site Green=Tags(s)

MGNITTENSSLSCPIDHTIHQTLAPVVVYTVLVVGF PANCLSLYFGYLQIKARNELGVVLCNLT IADLFY
 ICSLPFWLQYVLQHDDWSHGDLSCQVCGILLYENIYISVGFLCCISIDRYLAVAHPFRFHQFRTLKAAVG
 VSVLIWAKELLTSIYFLNHKEVIEDQHRVCFEHYPIQAWQRSINYYRFLVGF LFPICLLLASYGILR
 AVRRSHGTQKSRKDQIQRLV LSTVVI FLACFLPYHVLLLVRS L WERNCEFAKSI FNVYHF SLLLTSFNQV
 ADPVLYCFVSETTHRD LARLRGACLA VL TCSRTSRAREAYPLGAPEASGKSGAQGEEPELLTKLHSAFQT
 PSSLGVGGPSTVGLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9029_d03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175493

ORF Size: 1095 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 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_175493.4](#), [NP_780702.1](#)

RefSeq Size: 3241 bp

RefSeq ORF: 1098 bp

Locus ID: 238377

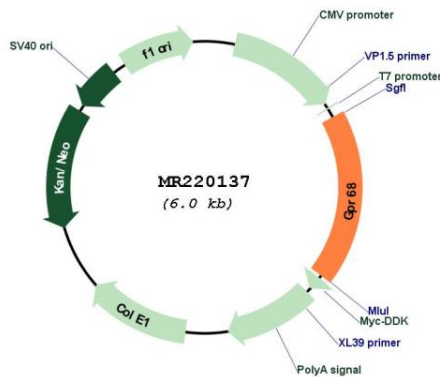
UniProt ID: [Q8BFQ3](#)

Cytogenetics: 12 E

MW: 41.7 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 MR220137