

Product datasheet for MR220720

Gpr68 (NM_001177674) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr68 (NM_001177674) 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:	>MR220720 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAACATCACTACAGAAACTCCTCACTATCTTGCCCCATCGACCACCATCCACCAGACTAG
CCCCAGTGGTCTATGTGACCGTGTGGTGGGCTTCCCAGCCAACCTGCCTGTCCCTCTACTTCGGGTA
CTTGCAGATCAAGGCCCGAATGAGCTGGGAGTGTACCTGTGTAACCTGACCATTGCAGACCTGTTCTAT
ATCTGTTCACTTCCCTTCTGGCTGCAGTACGTGCTTCAGCACGACGACTGGTCCCATGGTGACCTATCCT
GCCAGGTGTGGCATCCTCCTCTATGAGAACATTTACATCAGCGTGGGCTTCTCTGCTGCATCTCCAT
CGACCGCTACCTGGCTGTGGCCACCCCTTCCGCTTCCACCAGTTCGACCCCTGAAGGCAGCCGTGGGT
GTCAGTGTGCTCATCTGGGCAAGGAGCTGCTGACCAGCATCTACTTCCATCAATCACAAGGAGGTATTG
AGGACGAGGACCAGCACCGAGTCTGCTTTGAGCATTACCCATCCAGGCCTGGCAGCGTAGCATCAACTA
CTACCGCTTCTGGTGGGCTTTCTTCCCCATCTGCCTGCTGCTGGCCTCTACCAGGGCATCTGCGG
GCTGTGCGCCGACGCCACGGCACAGAAAGAGCCGCAAGGACCAGATTACGCGGCTGGTGTCTCAGCACCG
TGGTCACTTCTGGCTTGTCTTCTACCCTACCAGTGTGCTGCTGTTACGACGCTCTGGGAGAGAAA
CTGTGAGTTTGCAAGAGCATCTTCAACGTCTATCACTTCTCCCTCCTCCTCACCAGCTTCAACTGTGTA
GCTGACCCGGTGTACTGCTTTGTGTCAGTGAGACCACTCACAGGGACCTAGCCCCCTCCGAGGAGCCT
GCCTAGCTGTCTTACCTGCTCTAGGACAAGCAGGGCCAGGGAGGCTACCCCTCTGGGTGCCCTGAGGC
CTCTGGGAAAAGTGGGGCCAGGGCCGAGGAACCTGAATTGTTAAACCAAGCTCCTCACTCAGCCTTCCAGACC
CCTAGCTCACTGGGAGTGGGAGGCCCTCCACAGTGGGGTTGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR220720 protein sequence
 Red=Cloning site Green=Tags(s)

MGNITTENSSLSCPIDHTIHQTLAPVVVYTVLVVGF PANCLSLYFGYLQIKARNELGVVLCNLTIADLFY
 IC SL PFWLQYVLQHDDWSHGDLSCQVCGILLYENIYISVGFLCCISIDRYLAVAHPFRFHQFRTLKAAVG
 VSVLIWAKELLTSIYFLNHKEVIEDEDQHRVCFEHYPIQAWQRSINYYRFLVGF LFPICLLLAS YQGI LR
 AVRRSHGTQKSRKDQIQRLV LSTVVI FLACFLPYHV LLLV RSLWERNCEFAKSI FNVYHF SLLLTSFN CV
 ADPVLYCFVSETTHRD LARLRGACLA VL TCSRTSRAREAYPLGAPEASGKSGA QGEEPELLTKLHSAFQT
 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_001177674

ORF Size: 1098 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_001177674.2](#)

RefSeq Size: 3120 bp

RefSeq ORF: 1098 bp

Locus ID: 238377

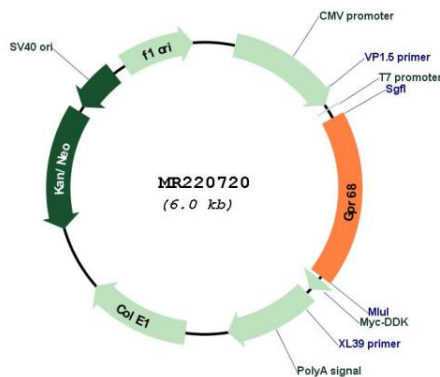
UniProt ID: [Q8BFQ3](#)

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 MR220720