

Product datasheet for **MG220141**

Gpr68 (NM_001177673) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpr68 (NM_001177673) 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:	>MG220141 representing NM_001177673 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAACATCACTACAGAAACTCCTCACTATCTTGCCCCATCGACCACCATCCACCAGACTAG
CCCCAGTGGTCTATGTGACCGTGTGGTGGGCTTCCCAGCCAAGTGCCTGTCCCTCTACTTCGGGTA
CTTGCAGATCAAGGCCCGAATGAGCTGGGAGTGTACCTGTGTAACCTGACCATTGCAGACCTGTTCTAT
ATCTGTTCACTTCCCTTCTGGCTGCAGTACGTGCTTCAGCACGACTGGTCCCATGGTGACCTATCCT
GCCAGGTGTGGCATCCTCCTATGAGAACATTTACATCAGCGTGGGCTTCTCTGCTGCATCTCCAT
CGACCGCTACCTGGCTGTGGCCACCCCTTCCGCTTCCACCAGTTCGACCCCTGAAGGCAGCCGTGGGT
GTCAGTGTGCTCATCTGGGCAAGGAGCTGCTGACCAGCATCTACTTCCATCAATCACAAGGAGGTCATTG
AGGACGAGGACCAGCACCGAGTCTGCTTTGAGCATTACCCATCCAGGCCTGGCAGCGTAGCATCAACTA
CTACCGCTTCCCTGGTGGGCTTTCTTCCCCATCTGCCTGCTGCTGGCCTCTACCAGGGCATCTGCGG
GCTGTGCGCCGACGCCACGGCACAGAAAGCCGCAAGGACCAGATTACGCGGCTGGTGTCTCAGCACCG
TGGTCATCTTCTGGCTTGTCTTCTACCCTACCAGTGTGCTGCTGTTACGACGCTCTGGGAGAGAAA
CTGTGAGTTTGCCAAGAGCATCTCAACGTCTATCACTTCTCCCTCCTCCTCACCAGCTTCAACTGTGTA
GCTGACCCGGTGTACTGCTTTGTGTCAGTGAGACCACTCACAGGGACCTAGCCCCCTCCGAGGAGCCT
GCCAGCTGTCTTACCTGCTCTAGGACAAGCAGGGCCAGGGAGGCTACCCCTCTGGGTGCCCTGAGGC
CTCTGGGAAAAGTGGGGCCAGGGCCGAGGAACCTGAATTGTTAAACCAAGCTCCTCACTCAGCCTTCCAGACC
CCTAGCTCACTGGGAGTGGGAGGCCCTCCACAGTGGGGTTGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

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:	<ol style="list-style-type: none">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
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]