

## Product datasheet for **MC219021**

### **Gpr161 (NM\_001081126) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gpr161 (NM_001081126) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gpr161
Synonyms:	Gm208; Gm208Gpr; vl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC219021 representing NM\_001081126  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGACTCGACACACACACTCTCTGGCTGATTTCTGTCCAGCATGCTCTGCTACCCG  
 CATCCCGAGGGGCACTGACCATGAGCCTCAACTCCTCCCTCAGCTACAGGAAGGAACTGAGCAACCTCAC  
 TGCAACAGAGGGTGGTGAAGGGGTGCCGTCTCTGAGTTCATCGCCATCATCATCACTGTCCTCGTC  
 TGCTGGGCAACCTGGTATTGTAGTACCTTTGTACAAGAAGTCTACCTCCTCACCTCAGCAACAAGT  
 TCGTCTTCAGCCTGACCTGTCCAATTCTGTTGTCGGTGTGGTGTGCCGTTCTGGTGGTACTAGCTC  
 CATCCGGAGGGAATGGATTTTCGGCGTGGTTGGTGAACCTCTCTGCCCTCCTACCTGCTGATCAGC  
 TCAGCCAGCATGCTCACGCTGGGGTATTGCCATCGATCGTACTACGCCGCTGTATCCAATGGTGT  
 ACCCCATGAAGATCACAGGAACCGAGCTGTGATGGCTCTCGTCTACATCTGGCTCCACTCTCTATTGG  
 CTGTCTGCCGCCCTATTTGGTTGGTTCATCGGTGGAGTTTGATGAGTTCAAGTGGATGTGTGGCCGCG  
 TGGCACCAGGAACCCGGCTACACCAATTTCTGGCAGATCTGGTGTGCCCTGTTCCCTTTCTCATATGC  
 TAGTGTGTACGGTTTTCATCTTCCGGGTGGCCAGGGTCAAGGCCGAAAGGTGCACTGTGGCAGCGTGGT  
 CACTGTGGAGGAGGACTCTCAGAGGAGCGGGAGGAAGAATTCTAGTACCTCCACTTCTCCTCCGGCAGT  
 AGGAGGAATGCCCTTCAAGGAGTGGTCTATTACGCTAACCAGTGCAAAGCCCTCATCACCATCCTGGTGG  
 TCATTGGCGCCTTCATGGTCACTGGGGCCCTACATGGTTGTGATTACCTCAGAGGCACTCTGGGGAA  
 GAACTGTGTCTCCCCAACCTGGAGACTTGGGCCACATGGCTGTCTTTACCAGTGCCATCTGCCACCCT  
 CTGATCTACGGACTCTGGAACAAGACTGTGCGCAAGGAGCTCCTGGGCATGTGCTTTGGGACCGTTATT  
 ACCGGGAATCCTTTGTGCAGCGACAGAGGACCTCCAGGCTCTTCCAGCATTTCACAGGATCACAGACTT  
 GGGTCTGTCCCCACATCTCACGGCGCTCATGGCAGGCGGACAGTCCCTGGGACACAGCAGCAGCACCGGT  
 GACACAGGCTTACGTAATCTCAGGATTAGGGACGGATGTGATGCTGTTGGAAGATGGCACTTCTGAGG  
 ACAACCCTCCCCAGCACTGCACTTGGCCACCAAGAGGAGGAGCTCCGTGACATTTGAGGACGAAGTGGG  
 ACAGATCAAAGAGGCGCCAAGAATCTCTTCTCATGTGAAAGCTGAAGTACACAAATCCTTGGACAGT  
 TACGCAGCCAGCTTGGCTAAAGCCATTGAGGCTGAAGCCAAAATCAACTATTTGGGGAGGAGGCTCTGC  
 CAGGGGTCTTGTTCACAGCACGGACCGTCCAGGGGCTGGCTTTGGGGCCGTCGAGGCAGCAGAATCT  
 TGTGAATCAGAGGCTGCAGCTACAGAGCATCAAAGAAGGCAATGTCTTAGCTGCAGAACAGAGATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1619\\_c06.zip](https://cdn.origene.com/chromatograms/ja1619_c06.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001081126

**Insert Size:** 1677 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001081126.1](#), [NP\\_001074595.1](#)

**RefSeq Size:** 1943 bp

**RefSeq ORF:** 1677 bp

**Locus ID:** 240888

**UniProt ID:** [B2RPY5](#)

**Cytogenetics:** 1 72.64 cM

**Gene Summary:** Key negative regulator of Shh signaling, which promotes the processing of GLI3 into GLI3R during neural tube development. Recruited by TULP3 and the IFT-A complex to primary cilia and acts as a regulator of the PKA-dependent basal repression machinery in Shh signaling by increasing cAMP levels, leading to promote the PKA-dependent processing of GLI3 into GLI3R and repress the Shh signaling. In presence of SHH, it is removed from primary cilia and is internalized into recycling endosomes, preventing its activity and allowing activation of the Shh signaling. Its ligand is unknown.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.