

## Product datasheet for **MC216704**

### **Gpr3711 (NM\_134438) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gpr3711 (NM_134438) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gpr3711
Synonyms:	AW047233; CAG-18; D0Kist8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216704 representing NM\_134438  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATCGGGTGGCTGTGGCCCTGGCTGTGTCTTGTGTAGTGTGACTGTGGGGCTGAGTGGGGTCTCTG  
 GGGCTGCCACCTCATCTTTAGGTGGGCATAGAGCCAAGGTCCAGGAGCAGCAGAGTCGACCCGAAGAGG  
 CACCAAGGACGAGGGGCCAAGGAGGTACAGCACTATGTACCCGAGGAGTGGGCTGAATATCCCAAGCCC  
 ATCCATCTGCTGGCCTGCAGCCACCAAGACTTTGGAGGCCACTAGCCCAACCCAGACAAGGATGGGG  
 CCACCCAGGTAATGGACAAGAGCTGAGGGTCAACCTGACCGGGACGCCAAGTCAGAGGCTGCAGATTCA  
 GAACCCCTGTATCCGGTGACCGAGAGCTCCTACAGCGCCTACGCCATCATGCTCCTGGCTCTGGTGGT  
 TTTGCTGTGGGTATCGTTGGCAATCTGTCTGCATGTGCATTGTGTGGCAGCTACTACTGAAGAGTG  
 CCTGGAATCTATCCTTGCCAGCCTGGCTCTCTGGGATTCCTGGTCTCTTCTTCTGCCTCCCAATTGT  
 CATCTTCAATGAGATTACCAAGCAAAGGCTACTCGGGATGTTTCTTGCCGGGCAGTGCCCTTCATGGAG  
 GTCTCCTCCCTGGGAGTCAACCTTCAGTCTCTGTGCCCTGGGCATAGACCGATTCCATGTGGCCACCA  
 GCACCTGCCAAAGGTGAGGCCATTGAGCGATGTCAATCAATCTGGCTAAACTAGCTGTCTATCTGGGT  
 GGGCTCCATGATGCTGGCCGTGCCGAACCTCTGCTATGGCAGCTGGCCAGGAGCCGGCTCCCACCCGA  
 GGAAGTGTGGACTCGTGTATCATGAAACCTTCAGCTGACCTGCCGAATCTGTCTATTTCGCTGGTGTGA  
 CCTACCAGAAATGCCCGCATGTGGTGGTATTTTGGTTGCTACTTCTGTCTGCCATCCTCTTACCCTCAC  
 CTGTACAGTGGTACGTGGCGGGTGGGGGCCACCAGGCAGGAAGCCTGAGTGTAGAGCGGGCAGGCAT  
 GAGCAGTGTGAGAGCCAGCTCAACAGCACCGTGGTCCGCTGACTGTGGTCTATGCCTTCTGTACTCTCC  
 CTGAGAACGTCTGCAATATCGTGGTGGTTACCTCTTACCAGCTCACGGCCAGACCCCTGGACCTCCT  
 GGGCCTCATCAACCAAGTTCTCCACCTTCTTAAAGGGCGCCATCACCCCTGTGCTCCTCCTGTGCATCTGC  
 AGGCCACTGGGCCAGGCCTTTCTGGATTGCTGCTGCTGCTGCTGCGAGGAGTGCGGGCGGGCCCTCAG  
 ACTCCTCAGCCACAGTCAGCGGGACAGCAAGCTGAAGCGGAAGTGTCTCTTCTATCTACTTCCACAA  
 GCCCAGGGAGTCGCCCCACTCTGCCCTGGGCACCCCTTGC**TGA**

**ACGGT**ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_134438

**Insert Size:** 1446 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\\_134438.3](#), [NP\\_602320.2](#)

RefSeq Size: 2267 bp

RefSeq ORF: 1446 bp

Locus ID: 171469

UniProt ID: [Q99JG2](#)

Cytogenetics: 1 E4

**Gene Summary:** G-protein coupled receptor (PubMed:27072655). Has been shown to bind the neuroprotective and glioprotective factor prosaposin (PSAP), leading to endocytosis followed by an ERK phosphorylation cascade (By similarity). However, other studies have shown that prosaposin does not increase activity (By similarity). It has been suggested that GPR37L1 is a constitutively active receptor which signals through the guanine nucleotide-binding protein G(s) subunit alpha (By similarity). Participates in the regulation of postnatal cerebellar development by modulating the Shh pathway (PubMed:24062445). Regulates baseline blood pressure in females and protects against cardiovascular stress in males (PubMed:29625592). Mediates inhibition of astrocyte glutamate transporters and reduction in neuronal N-methyl-D-aspartate receptor activity (PubMed:28795439).[UniProtKB/Swiss-Prot Function]