

Product datasheet for **MC222659**

Gprc6a (NM_153071) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gprc6a (NM_153071) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gprc6a
Synonyms:	MGC124360
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222659 representing NM_153071
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCCTATTGATTACAGTAGTTACTTGCTTCATGATTATTCTTGATACCTCCCAGTCTTGTCATACCC
 CAGATGACTTCGTGGCTATCACTTCTCCTGGACATATCATGATTGGTGGCTTGTTTGCCATTCATGAAAA
 AATGTTGTCTCAGATGACCATCCCAGACGACCACAAATCCAGAAATGTGCTGGCTTTGAAATATCAGTG
 TTTCTTCAAACCTCGGCTATGATACACAGCATTGAGATGATCAATAATTCAACACTGTTATCCGGAGTCA
 AGCTGGGATATGAAATCTATGACACTTGTACGAAGTACAGCAGCAATGGCTGCCACTCTGAGGTTCTT
 CTCAAATTCAACTGCTCTAGAGAACTGTGGTCTTTCAGTGTGACTATTCCAGCTACATGCCAAGGGTC
 AAGGCTGCATAGGTGCTGGCTACTCTGAAACATCCATCGCGGTCTCAAGGATGCTGAACTTACAGCTCA
 TGCCACAGGTGAGTTATGAATCCACTGCAGAAATCCTGAGTGACAAGATCCGCTTTCCTTCATTTTTACG
 GACTGTGCCTAGTGACTTCTACCAAACAAAGCAATGGCCACCTGATCCGACAATCGGGATGGAAGTGG
 ATTGGTGCCATAACAACCGATGATGATTATGGAAGACTAGCTCTCAACACATTTGCAATACAGGCTGCTG
 AAAACAATGTGTGCATTGCCTTCAAAGAGGTTCTGCCAGCCTTCCTCTCAGATAATACCATTGAAGTGAG
 AATTAACCAGACTCTGGAGAAGATCATTGCAGAAGCCAGGTTAATGTCATTGTGGTGTTTCTGAGAAAA
 TTCCATGTTTTCAATCTTTCACGAAAGCCATTGAAAGGAAAAAAGTAAGATCTGGATTGCTAGTGATA
 ATGGTCAACCGTACCAAGATTATCACCATCCCTAATGTTAAGAAGCTTGGCAAAGTGGTGGGTTTGC
 CTTTAGGAGAGGAAATACGTCTTCTTCCATTCTTTCTTCAAACCTCTGCATATGACCCCAATGACAAT
 AACAAACCCCTACATGAATTTGCCATGCTCGTTTCTGCCTGTAATACATCAAAGACGGTGATTTGAGCC
 AATGCATATCAAACCTATTCTCAGGCAACTTTGACCTATGACACTACCAAGACCATTGAAAACCAATTT
 CAAGAGAAATGATTTCTCTGGCATTATACTGAGCCGGGACTCATTATAGCATTAGCTTGCAGTGTTT
 GCCCTTGGTCATGCCATCCGGGATCTGTGCCAAGCTCGAGACTGCAAGAAACCAACGCCTTTCAGCCAT
 GGGAGCTACTTGGCGTGTGAAAAACGTGACATTCACTGATGGAAGGAATTCATTTCACTTTGATGCCCA
 CGGGGATTTAAATACTGGTTATGACGTGGTGTCTGGAAGGAGACCAATGGCCTCATGACTGTCACAAAG
 ATGGCAGAATATGACCTGCAGCGTGACGTCTTCAACCAACAACCAAGAAACAAAACATGAATTCAGGA
 AACTTAAGCAAATCTATCTAAATGCTCCAAGGAATGCAGCCCTGGTCAAATGAAGAAAGCCACAGGAAG
 CCAACACAGCTGTTGCTATGAATGTGTGAGCTGCCAGAAAACCACTACAGTAATGAGACAGATATGGAT
 CACTGCCTTTTATGCAACAATGAAACCCACTGGGCCCCAGTAAGGAGCACTACCTGCTTTGAAAAGGAAG
 TGGAGTATCTGGACTGGGATGACTCCTTGGCTCTCCTCCTCATTGCCCTCTCCTACTTGGAAATCGCCTT
 TGTTCGGCCATTGGCATAATATTTACAAGAACTGAAGACACCTGTCGTGAAATCATCTGGAGGATTA
 GTGGTCTGCTACGTGATGCTCATCTGCCAGCCCTTAACCTTGGCAGCACAGGCTTTTTTATTGGAGAAC
 CACAAGACTTTGGCGTGAAGACCAGGCAGACCTTATTTGGTGTGAGCTTTACTCTCTGTCTCCTGTAT
 TTTGACCAAGTCCCTGAAAAATTTGCTAGCTTTTCAAGTTTGGACCCCAAGCTGACAATGTTCTGAAGTGC
 CTTTATAGGCCTGTTCCCATTTGTTTACCTGCACGGGCATTCAAGTGGTCATTTGCACTCTTTGGCTGG
 TGCTGGCAGCACCTAGTGTGGAAGAGAATATCTCCTTGCCTAGAGTCATTATCCTGGAATGTGAGGAGGG
 GTCAGCACTGGCATTTTGGTACCATGCTGGGTACATCACAGTCTTGGCCTTCATTTGCTTTGATTTGCA
 TTCAAGGGGAGGAAACTTCTGAGAATTACAACGAAGCCAAGTTCTGACCTTTGGGATGCTGATTTACT
 TCATAGCTTGGATCACATTCATCCCTGTCTATACTACCACATTCGGCAAGTATTTGCCCGCGTGGAGAT
 TATAGTCATTCTGATATCCAATTATGGATTCTCTGCTGTATATTCTTCCCAAGTGTACATTATTCTT
 TGCAAGCAGAAGACTAACACCAAATCAGCCTTCTCCAGATGGTTTACAACACTCTGCTCACAGTGTGG
 ACAGCCTTGCTTGGATCATGTTTCCCTGGACTCCACCAGCTACGATACTGCAACAACCAATCAGAGCCC
 TGGTAACAAGATGACAGCCTGTGACAACGACAACCATCTTCTGCACAAGTGTCCACACACAGGCACG
 GCAAAGACTATCAAAGCGTCTAAAACCTTTCGCTCAGAAAAGAAGTTCAAGTATATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_153071
Insert Size:	2787 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_153071.1 , NP_694711.1
RefSeq Size:	2856 bp
RefSeq ORF:	2787 bp
Locus ID:	210198
UniProt ID:	Q8K4Z6
Cytogenetics:	10 B3
Gene Summary:	<p>Receptor activated by amino acids with a preference for basic amino acids such as L-Lys, L-Arg and L-ornithine but also by small and polar amino acids. The L-alpha amino acids respond is augmented by divalent cations Ca(2+) and Mg(2+). Activated by extracellular calcium and osteocalcin. Seems to act through a G(q)/G(11) and G(i)-coupled pathway. Mediates the non-genomic effects of androgens in multiple tissue. May coordinate nutritional and hormonal anabolic signals through the sensing of extracellular amino acids, osteocalcin, divalent ions and its responsiveness to anabolic steroids.[UniProtKB/Swiss-Prot Function]</p>