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Product datasheet for RN217339

Gprc6a (NM_001271106) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gprc6a (NM_001271106) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gprc6a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>RN217339 representing NM_001271106
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCTATCATTTGTATTTATTACTTGCTTCATGATTCTTCTTGATACCTCCCAGTCTTGTCATACCC
CAGATGACTTCGTGGCTATCACTTCTCCTGGACATATCATGATTGGTGGTTTGTTTGCCATTCACGAAAA
AATGTTGTCCTCAGATGACCATCCCAGGCAACCACAAATCCAGAAGTGTGTTGGTTTTGAAATATCAGTG
TTTCTTCAAACTCTGGCTATGATACACAGCATTGAGATGATCAATAACTCAAGCCTGTTGTCCGGAGTTA
AGCTGGGGTATGAAATCTATGACACTTGTACTGAAGTCACAGCGGCAATGGCTGCCACCCTGAGGTTCCT
CTCTAAATTCAACTGCTCTAGAGAAACCGTGATCTTTCAATGTGACTATTCCAGCTACGTGCCAAGGGTC
AAGGCCATCATAGGTGCTGGCTACTCTGAAATATCCATGGCGGTCTCGAGGATGCTGAATTTACAGCTCA
TGCCACAGGTGAGTTATGAATCCACTGCAGAAATCCTGAGTGACAAAATCCGCTTTCCTTCGTTTTTACG
AACCGTGCCCAGTGACTTCTACCAAACTAAAGCAATGGCCCACCTGATCCGACAATCCGGATGGAACTGG
GTTGGTGCCATAACAACCGACGATGATTATGGAAGACTAGCGCTCAACACATTTGCAATCCAGGCTGCTG
AAAACAATGTGTGCATCGCCTTCAAAGAGGTTCTGCCAGCCTTCCTCTCAGATAATACCATTGAAGTGAG
AATCAACCAGACTCTGGAGAAAATCATTGCCGAAGCCCAGGTCAATGTCATCGTGGTGTTTCTTAGGAAA
TTCCACGTCTTCAATCTCTTCAACAAAGCCATCGAGAGGAAAATAAGTAAGATCTGGATTGCTAGTGATA
ACTGGTCAACTGCTGCCAAGATTATCACCATTCCCAATGTTAAGAAGCTTGGCAAAGTAGTGGGCTTTAC
TTTTAGGAGAGGAAATATGTCTTCTTTCCATTCTTTTCTTCAAACTCTGCATATGTACCCCAGTGACAAT
AACAAACCCCTACATGAGTTTGCCATGCTTTTTTCTGCCTGTAAACACATCAAAGATGGTGATTTGAGCC
AATGCATTTCCAACTATTCTCAGGCAACTTGGACCTATGACACTACCAAGACCATTGAGACCCATTTATT
CAAGAGAAATGACTTCCTTTGGCATTATACTGAGCCAGGACTCATTCACAGCATTCAGCTTGCTGTGCTT
GCCTTGGGCCATGCCATCCGGGATCTGTGCCAAGATCGAGACTGCCAGAAACCCAACGCCTTTCAGCCAT
GGGAGCTACTTGCGGTGCTGAAAAACGTGACATTCACTGACGGAAAAAACTCATTTCATTTTGATGCCCA
TGGGGATTTAAATACTGGTTACGAGGTGGTGCTCTGGAAAGAGACTAACGGCCTCATGACTGTCACGAAG
ATGGCAGAATATGACCTGCAGCATGACGTCTTCATCACCACAAACCAAGAAACAAAGCATGAATTCAGGA
AACTTAAGCAAATTCTATCTAAATGCTCCAAAGAATGCATTCCTGGTCAAATGAAGAAAGCCACAGGAAG
CCAACACAGCTGTTGCTATGAATGTGTGAACTGCCCAGAAAACCACTACAGTAATGAGACAGACATGGAT
CACTGCCTCGTATGCAACAACGAAACCCACTGGGCCCCAGTAAGGAGCACGATGTGCTTCGAGAAGGAAG
TGGAGTATCTTGACTGGGATGACTCCTTGGCTCTCCTCCTCATTGCCCTCTCCCTACTTGGAATTGCCTT
TGTTCTGGCCGTTGGCATAATATTTACAAGAAACCTGAAGACACCTGTGGTGAAATCATCTGGGGGATTA
GTGGTCTGTTACGTGATGCTCGCCTGCCATGCCCTCAACTTTGCCAGCACAGGCTTTTTTATTGGAGAAC
CACAGGACTTCACGTGCAAGACCAGGCAGACCCTGTTTGGCGTGAGCTTTACTCTGTGTGTCTCCTGTAT
TTTGACGAAGTCCCTGAAAATTTTGCTAGCCTTCAGCTTCGACCCCACGCTGAAGACATTCCTGAAGTGT
CTCTATAGGCCAGTCCCCATTGTCCTTACCTGCACGGGCATTCAAGTGGTCATTTGCACGCTTTGGCTGG
TCCTGGCAGCACCTACTGTGGAAGAGAACACCTCCTTGCCTAGAGTCATTATCCTAGAATGTGAGGAGGG
ATCTGCACTGGCGTTTGGCACCATGCTGGGCTACATTGCAGTTCTGGCCTTCATTTGTTTTGTATTTGCA
TTCAAGGGGAGGAAGCTTCCTGAGAATTACAACGAAGCTAAGTTCCTGACCTTTGGGATGCTGATTTACT
TCATAGCTTGGATCACATTCATCCCAGTCTATGCTACCACTTTCGGCAAGTATTTGCCCGCTGTGGAGAT
CATAGTCATTCTGATATCCAACTATGGTATCCTCTGCTGTACATTCTTCCCCAAGTGCTACATTATTCTT
TGCAAGCAAAAGACTAACACTAAGTCAGTCTTCCTCCAGATGGTTTACAATTACTCTGCTCACAGCGTGG
ACAGCCTTGCCTTGAGTCACGTATCCCTGGACTCCGCCAGCCACAGTACTGCAACAACCAACCCGAGGCC
TGGTAACAAGACTGCAGCCTGTCAGAATTACAAACATCTTCCTGTACAAGTGCTTGCTCACACAGGCATG
GAAAAGACTATGCACGCGTCTAAAACTTTGCATCAGAAAAGAAGTTCAAGTATATGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3388_g03.zip

Restriction Sites: SgfI-RsrII

ACCN:	NM_001271106
Insert Size:	2787 bp
OTI Disclaimer:	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. 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001271106.1, NP_001258035.1
RefSeq Size:	3033 bp
RefSeq ORF:	2787 bp
Locus ID:	294394
UniProt ID:	Q70VB1
Cytogenetics:	20q11
Gene Summary:	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 (By similarity).[UniProtKB/Swiss-Prot Function]