

## Product datasheet for MR206447

### Gprc5b (NM\_022420) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gprc5b (NM_022420) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gprc5b
Synonyms:	AW125761; Raig2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206447 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTCTGGTGTAGAGAGAAAGATGAGAACCCATCAAGTGTTCCTTGCCCCGCTCCTGGTGATTG  
CCTCCGTGGCTTACAGAGAACGCCAGCACGTCCCGGGCTGTGGACTGGACCTTCTCCTCAGTACGTGTC  
CCTGTGCGACCTGGACGCCATCTGGGCATCGTGGTGGAGGCAGTGGCCGGGGCGGGGCCCTGATCACA  
CTGCTTCTGATGCTCATTCTCCTAGTGAGACTACCCTTCATCAAGGACAAGGAAAGGAAAGCGCCCTGTGT  
GCCTCCATTTCTTCTTCTGCTGGGACCTGGGCCTTTGGCCTGACGTTTGCCTTCATCATCCAGAT  
GGACGAGACAATCTGCTCCATCCGACGCTTCTCTGGGGTGTCCCTTCGCGCTCTGCTTTCTGCCTG  
CTGAGCCAGCGTGGCGGGTGGGAGGCTGGTGCAGGACCAAGCCCGCCAGCTGGCAGCTGGTGA  
GCCTGGCACTGTGCCTGATGCTGGTGCAGGTATCATTGCCACTGAGTGGCTGGTGTGACTGTGCTGCG  
TGACACGAAGCCAGCCTGCGCCTACGAGCCATGGATTTGTGATGGCGCTCATCTACGACATGGTGTG  
CTGGCCATCACCTGGCCAGTCCCTCTCACGCTGTGTGGCAAGTTCAAACGGTGAAGGTGAACGGAG  
CCTTATCCTCGTCACTACCTTCTCTGCGCTCATCTGGTGGTCTGGATGACCATGTACCTCTTCGG  
CAACTCATTAAATAAGCAGGGAGATGCCTGGAGCGACCCACCTTGCCATTACACTGGCAGCCAGCGGA  
TGGGTCTTTGTGATCTTCCATGCCATTCGGAGATCCACTACCCCTTCTCCACCCCTGCAGGAGAACC  
CACCCAACACTTTCGACACTTCACAGCCAGGATGCGGGAGACAGCATTGATGAGGAAATGCACCTGCC  
TCGGGCCATACATGGAGAACAAGCCTTCTCAATGGATGAACATAACGCAGCTCTCCGATCAGCAGTGGC  
TTTTCCAATGGAAGCTTGGAGCAAAGATCTAGCAGCCTGGGAAAGAAGCCAGCAGCTTGGGAAACCGGC  
CCAGTGCACCGTTCAGAAGCAATGTGTATCAGCCGACCGAGATGGCCGTCGTGCTCAATGGAGGGACTAT  
CCCAACTGCTCCGCCATCTCACACGGGAAGACACCATTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206447 protein sequence  
 Red=Cloning site Green=Tags(s)

MFLVLERKMRTHQVFPLPLLLVIASVASENASTSRGCGLDLLPQYVSLCDLDAIWGIVVEAVAGALIT  
 LLLMLILLVRLPFIKDKERKRPVCLHFLFLLGTLGLFGLTFAFI IQMDETICSI RRFLWGVLFALCF SCL  
 LSQAWRVRRLLVRQGTSPASWQLVSLALCLMLVQVIIATEWLVLTVLRDTPACAYEPMDFVMALIYDMVL  
 LAITLAQSLFTLCGKFKRWKVNAGAFILVTTFLSALIWVWMTMYLFGNSLIKQGDWSDPTLAITLAASG  
 WVFVIFHAIPEIHYTLLPPLQENPPNYFDTSQPRMRETA FDEEMHLPRAYMENKAF SMDEHNAALRS AVG  
 FSNGSLEQRSSSLGKKPSSLGNRPSAPFRSNVYQPTEMAVVLNGGTIPTAPPSHTGRHHW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_022420

**ORF Size:** 1233 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:**

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\\_022420.2](#)

**RefSeq Size:** 4525 bp

**RefSeq ORF:** 1233 bp

**Locus ID:** 64297

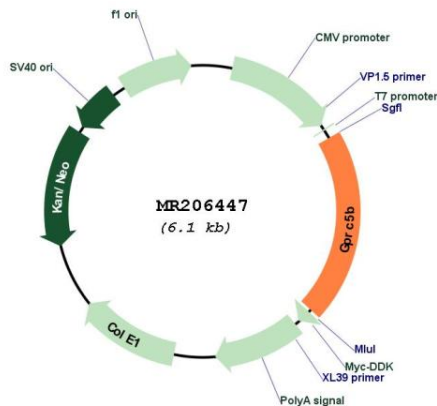
**UniProt ID:** [Q923Z0](#)

**Cytogenetics:** 7 F2

**MW:** 45.9 kDa

**Gene Summary:** Unknown. This retinoic acid-inducible G-protein coupled receptor provide evidence for a possible interaction between retinoid and G-protein signaling pathways (By similarity). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR206447