

## Product datasheet for MR205427

### Gprc5a (NM\_181444) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gprc5a (NM_181444) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gprc5a
Synonyms:	Rai3; Raig1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205427 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTACTCCTACAACCTGCCCTAGCGGTTGCCGCTCAGACCTGGATTCCAGGTACCACAGACTTTGTG  
ACCTGGCGGAAGGCTGGGGCATCGCGTTGGAAACTGGCTGCAGTCGGGGCTGTGGCTACCGTGGCTTG  
CATGTTTGCACCTGTTTTCTCATCTGCAAAGTGCAGGACTCCAACAAAAGAAAGATGCTCCCGCCAG  
TTCTCTTCTCCTGGGAGTGTAGGGGCTTTGGCCTCACCTTCGCCTTCATCATCAAGCTGGATGGG  
CCACAGGACCCACGCGCTTCTTCTCTTCGGAGTCTCTTCGCCATCTGTTCTCTTGCCTCCTGGCCCA  
CGCTTTCAACTTGATCAAGCTGGTCCGAGGGAGGAAGCCCTGTCGTGGCTTGTGATCCTCAGCCTGGCG  
GTGGGCTTCAGCCTGGTCCAGGACGTCATTGCCATTGAATACCTGGTCTCACCATGAACAGGACCAACG  
TCAATGTCTTTCTGAGCTGCCTGCTCCTCGGCGCAATGAGGATTTTCGTATGCTCCTCATTACGTGCT  
CGTCTTGATGGTGTGACCTTCTCACATCCTTCTTGGTTTTCTGTGGATCCTTCTCTGGCTGGAAGAGA  
CACGGTTCACATATGCTTCACCTCGTTCCTCTCATTGCCATCTGGGTGGCCTGGATCGTTCTGCTCC  
TGATCCCGACATTGACCGGAAATGGGATGATACCATTCTCAGCACAGCCTTGGTGGCAATGGCTGGGT  
TTCTCTGGCATTATATCTTGGCCGAGTTTCGACAGCTCCCAAGGCAACGGAGCCCACTGATTACCCA  
GTTGAAGATGCTTTTTGTAACCTCAGCTCATGAAGCAGAGCTATGGTGTGGAGAACAGAGCCTACTCCC  
AAGAGGAAATCACCCAAGGTCTTGAGATGGGGGACACACTCTATGCACCTTATTCCACCCATTTTCAGCT  
ACAGAATCACCAAAGGATTTCTCTATCCCGAGGGCCAGGCCCGGCCAGTCCGTACAATGACTACGAA  
GGGCGCAAAGGCGACAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205427 protein sequence  
Red=Cloning site Green=Tags(s)

MTTPTTAPSGCRSDLDSRYHRLCDLAEGWGIALETLAAVGAVATVACMFALVFLICKVQDSNKRKMLPAQ  
 FLFLLGVLGVFGLTFAFIIKLDGATGPTRFLLFGVLFALICFSCLLAHAFNLIKLVRGRKPLSWLVILSLA  
 VGFSLVQDVIAIEYLVLTMMRNTNVNVFSELPAPRRNEDFMLLIYVLVLMVLTFFTSFLVFCGSFSGWKR  
 HGFHICFTSFLSIAIWWAVIVLLLIPDIDRKWDDTILSTALVANGWVFLAFYILPEFRQLPRQRSPTDYP  
 VEDAFCKPQLMKQSYGVENRAYSQEEITQGLEMGDTLYAPYSTHFQLQNHQKDFSIPRAQAPASPYNDYE  
 GRKGDS

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\_181444

**ORF Size:** 1071 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\\_181444.4](#)

**RefSeq Size:** 2072 bp

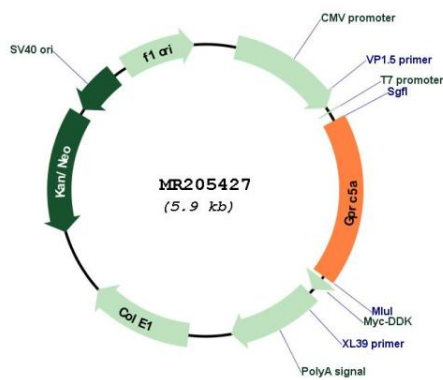
**RefSeq ORF:** 1071 bp

**Locus ID:** 232431

**Cytogenetics:** 6 G1

**MW:** 40.1 kDa

**Product images:**



Circular map for MR205427