

## Product datasheet for **MG205427**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gprc5a (NM_181444) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gprc5a
Synonyms:	Rai3; Raig1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205427 representing NM_181444 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTACTCCTACAACCTGCCCTAGCGGTTGCCGCTCAGACCTGGATTCCAGGTACCACAGACTTTGTG  
ACCTGGCGGAAGGCTGGGCATCGCGTTGGAAACTGGCTGCAGTCGGGGCTGTGGCTACCGTGGCTTG  
CATGTTTGCACCTGTTTTCTCATCTGCAAAGTGCAGGACTCCAACAAAAGAAAGATGCTCCCGCCAG  
TTCTCTTCTCCTGGGAGTGTAGGGGCTTTGGCCTCACCTTCGCCTTCATCATCAAGCTGGATGGG  
CCACAGGACCCACGCGCTTCTTCTCTTCGGAGTCTCTTCGCCATCTGTTCTCTTGCCTCCTGGCCCA  
CGCTTTCAACTTGATCAAGCTGGTCCGAGGGAGGAAGCCCTGTCGTGGCTTGTGATCCTCAGCCTGGCG  
GTGGGCTTCAGCCTGGTCCAGGACGTCATTGCCATTGAATACCTGGTCTCACCATGAACAGGACCAACG  
TCAATGTCTTTCTGAGCTGCCTGCTCCTCGGCGCAATGAGGATTTTCGTATGCTCCTCATTACGTGCT  
CGTCTTGATGGTGTGACCTTCTCACATCCTTCTTGTTTTCTGTGGATCCTTCTCTGGCTGGAAGAGA  
CACGGTTCACATATGCTTCACCTCGTTCCTCTCATTGCCATCTGGTGGCCTGGATCGTTCTGCTCC  
TGATCCCGACATTGACCGAAATGGGATGATACCATTCTCAGCACAGCCTTGGTGGCAATGGCTGGGT  
TTTCTGGCATTATATCTTGGCCGAGTTTCGACAGCTCCCAAGGCAACGGAGCCCACTGATTACCCA  
GTTGAAGATGCTTTTTGTAACCTCAGCTCATGAAGCAGAGTATGGTGTGGAGAACAGAGCCTACTCCC  
AAGAGGAAATCACCCAAGGTCTTGAGATGGGGGACACACTCTATGCACCTTATTCCACCCATTTTCAGCT  
ACAGAATCACCAAAGGATTTCTCTATCCCGAGGGCCAGGCCCGGCCAGTCCGTACAATGACTACGAA  
GGGCGCAAAGGCGACAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205427 representing NM\_181444  
 Red=Cloning site Green=Tags(s)

MTTPPTAPSGCRSDLDSRYHRLCDLAEGWGIALETLAAVGAVATVACMFALVFLICKVQDSNKRKMLPAQ  
 FLFLLGVLGVFGLTFAFIIKLDGATGPTRFLLFGVLFALICFSCLLAHAFNLIKLVRGRKPLSWLVILSLA  
 VGFSLVQDVIAIEYLVLTMNRTNVNVFSELPAPRRNEDFMLLIYVLVLMVLTFFTSFLVFCGSFSGWKR  
 HGFHICFTSFLSIAIWWAVIVLLLIPDIDRKWDDTILSTALVANGWVFLAFYILPEFRQLPRQRSPTDYP  
 VEDAFCKPQLMKQSYGVENRAYSQEEITQGLEMGDTLYAPYSTHFQLQNHQKDFSIPRAQAPASPYNDYE  
 GRKGDS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_181444

**ORF Size:** 1068 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](#)

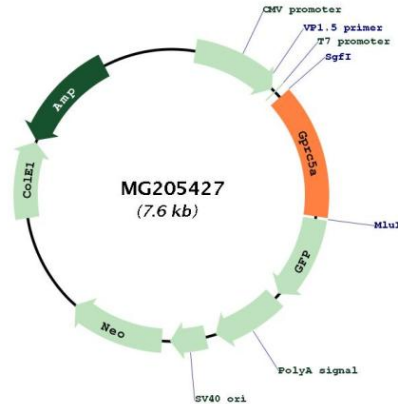
**RefSeq Size:** 2174 bp

**RefSeq ORF:** 1071 bp

**Locus ID:** 232431

**Cytogenetics:** 6 G1

### Product images:



Circular map for MG205427