

## Product datasheet for **MG220416**

### Gpatch4 (NM\_001110809) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gpatch4 (NM_001110809) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gpatch4
Synonyms:	2610029K21Rik; Gpatc4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220416 representing NM_001110809 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGTCACCCAGAGGTCAAGAGCCGTGGGATGAAGTTTGCTGAAGAGCAGCTGCTGAAGCATGGAT  
GGACTCAAGGCAAGGGCCTGGGCCGAGGGAGAATGCCATTACCCAGGCCCTCAAGGTGACACTGAAGCA  
AGATAACCATGGGGTGGGACATGACCCTGCCAAGGAATTTACAGACCACTGGTGGAGTGATCTCTCAAC  
AAGACTGCCGCCAGCTTGGTAGTGGACTCGGGGAAGGATGGAGTGCAGATAAGACGCTTTCCAAGGAGA  
CCACCCAGCGCAGTCACCCAAACCCAGCTTGCTGTATCAGAAGTTTGTGAAGACAGCCACACTAACCTC  
GGGTGAGGAGAAGCCTGACAGAGACTTGGGAACTGCAGTGATGTTGACAACCATGAGCCCACGCCCCA  
AAGATTCTGACTGATGAGATGCTACTCAAGGCTTGCAGGGGCGAACAGCACACAAGGCTGCCCGGATTG  
GTATCACCATGAAGGCCAAGCTTCTCGCCTGGAGGCCAAGAGCAGGCCTTTCTGGCTCAGCTCAAAGG  
CTCAAAGGCTCTGGGCACCTCTCAACCACTGACTGACAGTGAGCCTTCCCAAAAAAGAAAAAGAAGAGG  
AAGCAGAAAGAGGGGGAAGAGGCTGCAACAAGTAAAAGAGTCTAGGTGACGAGCTGCTGGGACACACGG  
ACAGGAGCTTCAGGGACAGCAGGAAGAAGAAGAGGCGAAGCCGAGAGACAGGGAACGGCTATAGG  
AAGTGAGGAGGAAGAGGCTGCAGGAGAGAGTGGGCCAGAGAAGTGAAGACAGGAGCAATCTGATCAGCCT  
TCCAGGAAAAAGAAGAAAAGGAGGAAGCAGCCCATGAAGAAGACGGGGAGATGGGAGTCTGTGATGAAG  
GAGGTAGAGATGTGACAAGCCGGCCAAAGGCAGTCAACAGTGGAGGAGACAAGACCCAGGGAAGCAG  
CAAGAAGCGAGGGACGTGTGGGGAGGACTTAGATACCCAAGAGGAAGAAGGGAAGGATGACCTAACAAAA  
GGAGAGAGAAAGGTGAGAAGAAAAGACAAAAGGAAAAGACAGCAGTGCTGTGAGGAGGACTTAGATGTAA  
GCAGTAAAGATGATGGTGGGACATGGGTAGCAGAGGATGCAGGTGAGAGAAGTCGGCAATACCCAAAGGA  
GAGAGCCAAAAAGAAGACGGGAAGAGGGACCGAGGGTCTGAAGTGGATCTCAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG220416 representing NM\_001110809  
 Red=Cloning site Green=Tags(s)

```
MSVTPEVKS RGMKFAEEQLLKHWG TQGKGLGRRENGITQALKVTLKQDNHGVGHDP AKEFTDHWWSDLFN
KTAASLVVDSGKDG VQIRRLSKETTQRSHPKPSLLYQKFVKTATLTS GEEKPDRDLGNCSVDVNDHEPTPP
KILTD EMLLKACEGR T AHKAARIGITMKAKLARLEAQEQAF LAQLKGSKALGTSQPLTDSEPSQK KKKKKR
KQKEGEEAATTEKSLGDELLGHTDRSFRDSRKKKKRQKAERQGT AIGSEEEEEAGESGPRELSTEQSDQP
SRKKKKRRKQRHEEDGEMGVCD EGGRDVTSRPKAVNSGGDKDPRRSSKKRGT CGEDLDTQE EEGKDDLTK
GERKVR RKDKRKRQCCEEDLDVSSKDDGGTWAEDAGERSRQYPKERAKKKKKRKRDRGSEVDLS
```

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001110809

**ORF Size:** 1245 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\\_001110809.2](#)

**RefSeq Size:** 1650 bp

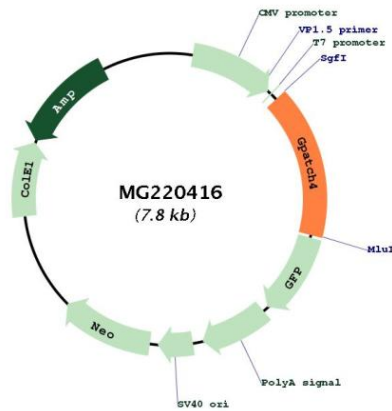
**RefSeq ORF:** 1248 bp

**Locus ID:** 66614

**UniProt ID:** [Q3TFK5](#)

**Cytogenetics:** 3 F1

**Product images:**



Circular map for MG220416