

## Product datasheet for **MG220777**

### **Gpatch3 (NM\_172876) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gpatch3 (NM_172876) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gpatch3
Synonyms:	D930035B09Rik; Gpatc3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG220777 representing NM\_172876  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGTCGCCAGGGAGCTGGACGAAGAGTCGCCGGTTACCTGGTGGTGAGCGGGATCCCTGCCGTGT  
 TACGCTCGGCTCAGTTACGGAGCTACTTTAGCCAGTTCGGGAACAGCGCGCGGAGGCTTCTGTGCTT  
 CCACTACCGGCACCGGCCGAGAGGGGCCCTCCGACGGCAGTCCCGAGGCGGCCCGGGCTGGCCCGGAC  
 CCCGCCGTGAGGATCCGGTTCTCGCCAGGCTCCGGCCTCCGATGCCGCGCTGTCCGCGCCCGGGCT  
 CTGCGGCAGCCAGACCCGACCTGCTGCTGCGTCTCGGTGAGGGGAGCGGCCAAGCCAGCGGCT  
 GCTTTCGATGACTCCGGTCGCCGGTGGCTGGACTCTCAGGGGACCTGGTTCCCGGTGCTGTCTCATC  
 CGCAGGCTTAGGCTTCCACCGAGGTTTACAGTCTGGGGTCTTTCCCTTAAGACCCGGAAGGAACAC  
 AGAGTCGAAGGGCGGAGAATGAAGCTTTTACCCTGGCTGACCTGAAGCAGCTCCCGAGCTGAATCCGCC  
 AGTGTGATGCCAATGGCAATGTGGCACCCCTGCGGGTCTTTTAGAGTTGATCCGGTCTGCCGT  
 CTACCACCTAGAATCATTACCCAGCTACAGCTCCAGTTTCCCAAGACCGGCTCCTCCCGGCGCTATGGCA  
 ACGTGCCTTTTCTGTATGAGGACTCAGAGACTGTGGAGCAAGAAGAGCACGTGTACACAGCAGAAGGGGA  
 GGAGATCCCCAGGGGAGCTGCTCGAAGATCCAGCAGCTGGCTCCTTTGATGAGCCGGAGGATGAAGGG  
 CAGCAGCAGGAGGAGGAGGAGTCTGGCTCAGAAGAGGACGATGACCGGGGTGAGGAGTGGGAGCGAC  
 ACGAAGCTCTGCACGAGGATGTGACCGGGCAGGAGCGGACTACAGAGCGGCTCTTCGAGGAGGAGATTGA  
 ACTTAAGTGGGAGAAAGTGGCTCTGGCCTCGTGTCTACACCGACGCTCAGTCTGGCAGGAGGAGGAA  
 GGAGATTTTGTGAGCAGACAGCTGATGACTGGGACGTGGACATGAGCGTCTACTACGACAGAGATGGAG  
 CAGCAAGGATGCCCGTACTGTCCAAATGCGCCTGGAACGGAGACTCCGTGAGGGTCAAGGAAGATGG  
 CTCTGTGCTAGGTGGCCAAGTCGGCACCTTTGAGCGCCACACCAAGGGCATCGGCCGGAAGGTGATGGAG  
 CGCCAGGGCTGGGCTGAAGGCCAGGGCCTGGGCAGCAGGTGCTCCGGGGTGCCTGAGGCCCTGGATGGAG  
 ATGGCCAGCATCCTAGATGCAAGCGCGGCTTGGGATACCATGGAGAGAAGTTACAGCCATTTAGGCAACT  
 GAAGAGGCCCGTCAACTGGCTTGGGGCTCATTTCCACCATCTATGATGAGCCTCTGCCCAAGACCGAG  
 GGGGAGACCTTGTCCGGCGCCAGCCACCACCAGCATGAAGTTTCGGACAGATGACTTTTGTGAAGG  
 GTTCTAGCTGTGCCTTGGACAGACCTGAGCCCGAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG220777 representing NM\_172876  
 Red=Cloning site Green=Tags(s)

MASPRELDEESPVYL VVSGIPAVLRSALRSYFSQFREQRGGGFLCFHYRHRPERGPPQASPEAARAGPD  
 PAAEDPVLAQAPASDARAVRARGSAAAQTRTCCCVVSVRGAAQAQRLLRMYSGRRWLDSQGTWLPGRCL  
 RRLRLPTEVSDLGSFPFKTRKELQSRRAENEAF TLADLKQLPELNPPVLMPNGNVGTPLRVFLELIRSCR  
 LPPRIITQLQLQFPKTGSSRRYGNVPFLYEDSETVEQEEHVYTAEGEEIPQGSCSEDPAAGSFDEPEDEG  
 QQQEEEEESGSEEDDRGEEWERHEALHEDVTGQERTTERLFEEEEIELKWEKGGSGLVFYTDAQFWQEEE  
 GDFDEQTADDWDVDMSVYYDRDGGDKDARDSVQMLRERLREGQEDGSVLGGQVGTFERHTKIGIRKVM  
 RQGWAEQQLGSRCSGVPEALDGDGQHPRCKRGLGYHGEKLPFRQLKRPRTGLGLISTIYDEPLPDQ  
 GETLLRRQPPTSMKFRDMTFVKGSSCALDRPEPE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_172876

ORF Size: 1575 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\\_172876.2](#), [NP\\_766464.1](#)

RefSeq Size: 2003 bp

RefSeq ORF: 1578 bp

Locus ID: 242691

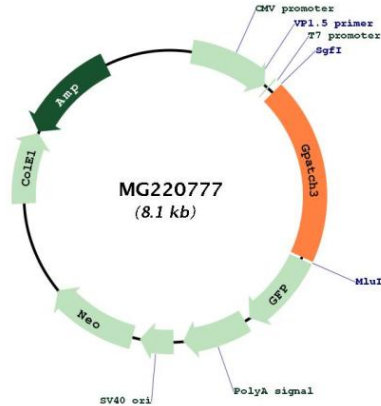
UniProt ID: [Q8BIY1](#)

Cytogenetics: 4 D2.3

**Gene Summary:**

Involved in transcriptional regulation. It is able to activate transcription from CXCR4 promoter and therefore it might control neural crest cell migration involved in ocular and craniofacial development. Is a negative regulator of immune antiviral response, acting via down-regulation of RIG-I-like receptors signaling and inhibition of type I interferon production. The control mechanism involves interaction with mitochondrial MAVS and inhibition of MAVS assembly with downstream proteins implicated in antiviral response, such as TBK1 and TRAF6.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG220777