

Product datasheet for **MR220777**

Gpatch3 (NM_172876) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpatch3 (NM_172876) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gpatch3
Synonyms:	D930035B09Rik; Gpatc3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR220777 representing NM_172876
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTCGCCAGGGAGCTGGACGAAGAGTCGCCGGTTACCTGGTGGTGGAGCGGGATCCCTGCCGTGT
 TACGCTCGGCTCAGTTACGGAGCTACTTTAGCCAGTTCGGGAACAGCGCGCGGAGGCTTCTGTGCTT
 CCACTACCGGCACCGGCCGAGAGGGGCCCTCCGAGGGCAGTCCCGAGGCGGCCCGGGCTGGCCCGGAC
 CCCGCCGTGAGGATCCGGTTCTCGCCAGGCTCCGGCCTCCGATGCCCGCGCTGTCCGCGCCCGGGCT
 CTGCGGCAGCCAGACCCGACCTGCTGCTGCGTCTCGGTGAGGGGAGCGGCCAAGCCAGCGGCT
 GCTTCGCATGACTCCGGTCGCCGGTGGCTGGACTCTCAGGGGACCTGGTTCCCGGTGCTGTCTCATC
 CGCAGGCTTAGGCTTCCACCGAGGTTTACAGTCTGGGGTCTTTCCCTTAAGACCCGGAAGAACTAC
 AGAGTCGAAGGGCGGAGAATGAAGCTTTTACCCTGGCTGACCTGAAGCAGCTCCCGAGCTGAATCCGCC
 AGTGTGATGCCAATGGCAATGTGGGCACCCCTGCGGGTCTTTTAGAGTTGATCCGGTCTGCCGT
 CTACCACCTAGAATCATTACCCAGCTACAGCTCCAGTTTCCCAAGACCGGCTCTCCCGCGCTATGGCA
 ACGTGCCCTTTCTGTATGAGGACTCAGAGACTGTGGAGCAAGAAGAGCACGTGTACACAGCAGAAGGGGA
 GGAGATCCCCAGGGGAGCTGCTCGAAGATCCAGCAGCTGGCTCCTTTGATGAGCCGGAGGATGAAGGG
 CAGCAGCAGGAGGAGGAGGAGTCTGGCTCAGAAGAGGACGATGACCGGGGTGAGGAGTGGGAGCGAC
 ACGAAGCTCTGCACGAGGATGTGACCGGGCAGGAGCGGACTACAGAGCGGCTCTTCGAGGAGGAGATTGA
 ACTTAAGTGGGAGAAAGTGGCTCTGGCCTCGTGTCTACACCGACGCTCAGTTCTGGCAGGAGGAGGAA
 GGAGATTTTGTGAGCAGACAGCTGATGACTGGGACGTGGACATGAGCGTCTACTACGACAGAGATGGAG
 GAGACAAGGATGCCCGTACTCTGTCCAAATGCCCTGGAACGGAGACTCCGTGAGGGTCAGGAAGATGG
 CTCTGTGCTAGGTGGCCAAGTCGGCACCTTTAGCGCCACACCAAGGGCATCGGCCGGAAGGTGATGGAG
 CGCCAGGGCTGGGCTGAAGGCCAGGGCCTGGGCAGCAGGTGCTCCGGGGTGCCTGAGGCCCTGGATGGAG
 ATGGCCAGCATCCTAGATGCAAGCGCGGCTTGGGATACCATGGAGAGAAGTTACAGCCATTTAGGCAACT
 GAAGAGGCCCGTCAACTGGCTTGGGGCTCATTTCCACCATCTATGATGAGCCTCTGCCCAAGACCAG
 GGGGAGACCTTGCTCCGGCGCCAGCCACCACCAGCATGAAGTTTCGGACAGATGACTTTTGTGAAGG
 GTTCTAGCTGTGCCTGGACAGACCTGAGCCCGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220777 representing NM_172876
 Red=Cloning site Green=Tags(s)

MASPRELDEESPVYLVVSGIPAVLRSALRSYFSQFREQRGGFLCFHYRHRPERGPPQASPEAARAGPD
 PAAEDPVLAAQAPASDARAVRARGSAAAQTRTCCCVSVRGAQAQRLRMYSGRRLWDSQGTWLPGRCLI
 RRLRLPTEVSDLGSPFKTRKELQSRRAENEAFTLADLKQLPELNPPVLMPNGNVGTPLRVFLELRSCR
 LPPRIITQLQLQFPKTGSSRRYGNVPFLYEDSETVEQEEHVYTAEGEEIPQGSCSEDPAAGSFDEPEDEG
 QQEEEEESGSEEDDRGEEWERHEALHEDVTGQERTTERLFEEIEELKWEKGGSGLVFYDTAQFWQEEE
 GDFDEQTADDWDVMSVYYDRDGGDKDARDSVQMLERRLREGQEDGSLVGGVGTFRHTKIGRKMVE
 RQGWAEQGGLSRSVPEALDGDGQHPKRGGLGYHGEKLPFRQLKRPRTGLGLISTIYDEPLPDQ
 GETLLRRQPPTSMKFRDMTFVKGSSCALDRPEPE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9092_g03.zip

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

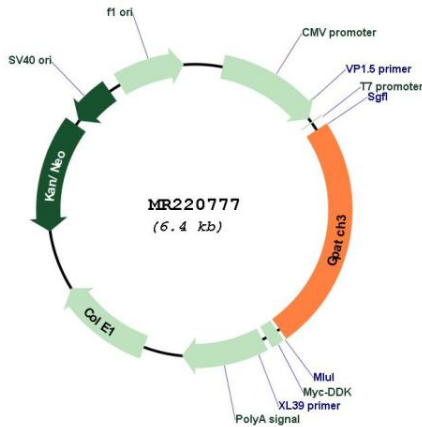
UniProt ID: [Q8BIY1](#)

Cytogenetics: 4 D2.3

MW: 59.2 kDa

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 MR220777