

Product datasheet for **RG203010**

GPATCH3 (NM_022078) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPATCH3 (NM_022078) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPATCH3
Synonyms:	GPATC3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG203010 representing NM_022078
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGTGCCCGGCGAGGCGGAGGAGGAGGCGACAGTTTACCTGGTAGTGAGCGGTATCCCTCCGTGT
 TGCCTCGGCCCATTTACGGAGCTATTTAGCCAGTTCCGAGAAGAGCGCGCGGTGGCTTCCTCTGTTT
 CCACTACCGGCATCGGCCTGAGCGGGCCCTCCGAGGCCGCTCCTAACTCTGCCCTAATTCCTACCGAC
 CCAGCCGCTGAGGGCCAGCTTCTCTCAGACTTCGGCCACCGATGTCCGGCCTCTCTCACTCGAGACT
 CTACTCCAATCCAGACCCGACCTGCTGCTGCGTCATCTCGTAAGGGGGTTGGCTCAAGCTCAGAGGCT
 TATTGCGATGACTCGGGCCCGGTGGCTGGATTCTACGGGACTTGGTACCGGGTGGCTGTCTCATC
 CGCAGACTTCGGTACCTACGGAGGCATCAGGTCTGGGCTCCTTCCCTCAAGACCCGGAAGGAAGTGC
 AGAGTTGGAAGGCAGAGAATGAAGCCTTACCCTGGCTGACCTGAAGCAACTGCCGGAGCTGAACCCACC
 AGTGCTGATGCCAGAGGAATGTGGGACTCCCTGCGGTCTTTTGGAGTTGATCCGGGCTGCCGC
 CTACCCCTCGGATCATACCCAGCTGCAGTCCAGTTCCCAAGACAGGTTCTCCCGCGCTACGGCA
 ATGTGCCTTTTGGTATGAGGACTCAGAGACTGTGGAGCAGGAAGAGCTTGTGTATACAGCAGAGGGTGA
 AGAAATACCCCAAGGAACCTACCTGGCAGATATACCAGCCAGCCCTGTGGAGAGCTGAGGAAGAAGTG
 GGAAGGAAGAGGAAGAAGAGTCTCACTCAGATGAGGACGATGACCGGGTGAGGAATGGGAACGGCATG
 AAGCGTGCATGAGGACGTGACCGGGCAGGAGCGGACCACTGAGCAGCTCTTGAGGAGGAGATTGAGCT
 CAAGTGGGAGAAGGTGGCTCTGGCCTGGTGTATTTACTGATGCCAGTTCTGGCAGGAGGAAGAAGGA
 GATTTTGTGAACAGACAGCCGATGACTGGGATGTGGACATGAGTGTGTACTATGACAGAGATGGTGGAG
 ACAAGGATGCCCGAGACTCTGTCAAATGCGTCTGGAACAGAGACTCCGAGATGGACAGGAAGATGGCTC
 TGTGATCGAACGCCAGGTGGGCACCTTTGAGCGCCACACCAAGGGCATTGGGCGGAAGGTGATGGAGCGG
 CAGGGCTGGGCTGAGGGCCAGGGCTGGGCTGCAGGTGCTCAGGGGTGCCTGAGGCCCTGGATAGTGATG
 GCCAACACCCAGATGCAAGCGTGGATTGGGTACCATGGAGAGAAGCTACAGCCATTTGGGCAACTGAA
 GAGGCCCGTAGAAATGGCTTGGGGCTCATCTCCACCCTATGATGAGCCTCTACCCCAAGACCAGACG
 GAGTCACTGCTCCGCCGCCAGCCACCCACCAGCATGAAGTTTCGGACAGACATGGCCTTTGTGAGGGGT
 CCAGTTGTGCTTCAGACAGCCCTCATTGCCTGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG203010 representing NM_022078
 Red=Cloning site Green=Tags(s)

MAVPGAEETVYLVVSGIPSVLRSALRSYFSQFREERGGFLCFHYRHRPERAPPQAAPNSALIPD
 PAAEQQLLSQTSATDVRPLSTRDSTPIQTRTCCCVISVRGLAQARLIRMYSGRRWLDHGTWLPGRCL
 RRLRLPTEASGLGSFPFKTRKELQSWKAENEAFTLADLKQLPELNPPVLMPRGNVGTPLRVFLELIRACR
 LPPRIITQLQLQFPKTGSSRRYGNVPFEYEDSETVEQEELVYTAEGEEIPQGTYLADIPASPCGEPEEEV
 GKEEEESHSDDDDRGEEWERHEALHEDVTGQERTTEQLFEEELKWEKGSGLVFYTDQFWQEEEG
 DFDEQTADDWDVMSVYYDRDGGDKDARDSVQMRLEQRLRDGQEDGSVIERQVGTFRHTKGIGRKVYMER
 QGWAEGQGLGCRCSGVEALDSGQHPRCKRGLGYHGEKLQPFQGLKPRRRNGLGLISTIYDEPLPQDQT
 ESLLRRQPPTSMKFRTDMAFVRGSSCASDSPSLPD

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_022078

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_022078.3](#)

RefSeq Size: 2123 bp

RefSeq ORF: 1578 bp

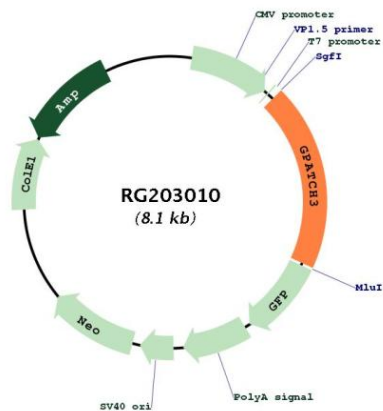
Locus ID: 63906

UniProt ID: [Q96I76](#)

Cytogenetics: 1p36.11

Gene Summary: Involved in transcriptional regulation. It is able to activate transcription from the CXCR4 promoter and therefore it might control neural crest cell migration involved in ocular and craniofacial development (PubMed:28397860). 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 (PubMed:28414768).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG203010