

Product datasheet for **SC122923**

GPATCH3 (NM_022078) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPATCH3 (NM_022078) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPATCH3
Synonyms:	GPATC3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_022078 edited
CCAAGATGGCGGTGCCCGGCGAGGCGGAGGAGGAGGCGACAGTTTACCTGGTAGTGAGCG
GTATCCCCCTCCGTGTTGCGCTCGGCCATTTACGGAGCTATTTTAGCCAGTTCCGAGAAG
AGCGCGGCGGTGGCTTCTCTGTTTCCACTACCGGCATCGGCCTGAGCGGGCCCCCTCCGC
AGGCCGCTCCTAACTCTGCCCTAATTCTACCGACCCAGCCGCTGAGGGCCAGCTTCTCT
CTCAGACTTCGGCCACCGATGTCGGCCTCTCTCCACTCGAGACTCTACTCCAATCCAGA
CCCGCACCTGCTGCTGCGTCATCTCGGTAAGGGGTTGGCTCAAGCTCAGAGGCTTATTC
GCATGTACTCGGGCCCGCGGTGGCTGGATTCTCACGGGACTTGGCTACCGGGTCGCTGTC
TCATCCGCAGACTTCGGCTACCTACGGAGGCATCAGGTCTGGGCTCCTTTCCCTTCAAGA
CCCGGAAGGAACTGCAGAGTTGGAAGGCAGAGAATGAAGCCTTACCCTGGCTGACCTGA
AGCAACTGCCGAGCTGAACCCACAGTCTGATGCCAGAGGGAATGTGGGGACTCCCC
TGCGGGTCTTTTTGGAGTTGATCCGGGCTGCCGCTACCCCTCGGATCATACCCAGC
TGCAGCTCCAGTCCCAAGACAGGTTCTCCCGGCGCTACGGCAATGTGCCTTTTGTAGT
ATGAGGACTCAGAGACTGTGGAGCAGGAAGAGCTTGTGTATACAGCAGAGGGTGAAGAAA
TACCCCAAGGAACCTACCTGGCAGATATACCAGCCAGCCCTGTGGAGAGCTGAGGAAG
AAGTGGGAAGGAAGAGGAAGAAGAGTCTCACTCAGATGAGGACGATGACCGGGGTGAGG
AATGGGAACGGCATGAAGCGCTGCATGAGGACGTGACCGGGCAGGAGCGGACCACTGAGC
AGCTCTTTGAGGAGGAGATTGAGCTCAAGTGGGAGAAGGGTGGCTCTGGCCTGGTGTGTTT
ATACTGATGCCAGTTCTTGGCAGGAGGAAGAAGGAGATTTTGTGAACAGACAGCCGATG
ACTGGGATGTGGACATGAGTGTGTAATGACAGAGATGGTGGAGACAAGGATGCCCGAG
ACTCTGTCCAAATGCGTCTGGAACAGAGACTCCGAGATGGACAGGAAGATGGCTCTGTGA
TCGAACGCCAGGTGGGCACCTTTGAGCGCCACACCAAGGGCATTGGGCGGAAGGTGATGG
AGCGGCAGGGCTGGGCTGAGGGCCAGGGCCTGGGCTGCAGGTGCTCAGGGGTGCCTGAGG
CCCTGGATAGTGATGGCCAACACCCAGATGCAAGCGTGGATTGGGGTACCATGGAGAGA
AGCTACAGCCATTTGGGCAACTGAAGAGGCCCCGTAGAAATGGCTTGGGGCTCATCTCCA
CCATCTATGATGAGCCTTACCCCAAGACCAGACGGAGTCACTGCTCCGCCGCCAGCCAC
CCACCAGCATGAAGTTTCGGACAGACATGGCCTTTGTGAGGGGTTCCAGTTGTGCTTCAG
ACAGCCCCTCATTGCCTGACTGACCGGGTTGGGGGCTTCTTTTATAGCTACATGATGAA
AACCTCTGCCCTGGCCTCATCTACCACTGAAGCAGAAAGGAGTCTGGGAGCAGCAGTCT
TCGTGGCTGGTTCAGGGTGTGTTTCCGAGCCTGCCTGCCTGCCGTTCTATACCTCAG
GGGCATTTTTACAAAAGCCCCCTCCCGTCCCCTCCCCTTGGATATTAGGGGTAACGACC
GCTTGTCTTTGGTCTTAACCCTAATCTCTGGGCTTGGCCTTTGCCTCCTGCAGAACTTT
GAAAAGCTGGGTTGAGTGAGGCTATCAGCACAGCCTTCTTGGGGACTCTGAAGGTGTCC
CCACGAAGGCCAGAAAGGGGAAAGGGACCTGGGCGAGGAGAGGATTTGTGGTGTGTTGA
AGAGCCGGCCTTGGGTGGGCCCTCCACCGCCTTACCCTCACTGGGTGGGACTGCCAGCG
GAGAGTCCGCGGGAGGTGGCTTGGGTGTGCGACGTACCGGAAGAATAAAGACGTTTACTA
CTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_022078 unedited NNGGGGGAGTACAACATTTGTNATACGACTACTATAGGCGGCCGNAATTCGCACNG GCCAATAGGCGGTGCCCGGCGAGGCGGAGGAGGCGACAGTTTACCTGGTAGTGAGCG GTATCCCCTCCGTGTTGCGCTCGGCCATTTACGGAGCTATTTTAGCCAGTTCGAGAAG AGCGCGGCGGTGGCTTCTCTGTTTCCACTACCGGCATCGGCCTGAGCGGGCCCTCCGC AGGCCGCTCCTAACTCTGCCCTAATTCTACCGACCCAGCCGCTGAGGGCCAGCTTCTCT CTCAGACTTCGGCCACCGATGTCCGGCCTCTCCTCACTCGAGACTCTACTCCAATCCAGA CCCGCACCTGCTGCTGCGTCATCTCGGTAAGGGGTTGGCTCAAGCTCAGAGGCTTATTC GCATGTA CTGGGCCCGCGGTGGCTGGATTCTCACGGGACTTGGCTACCGGGTCGCTGTC TCATCCGCAGACTTCGGCTACCTACGGAGGCATCAGGTCTGGGCTCCTTTCCCTTCAAGA CCCGAAGGAAGTGCAGAGTTGGAAGGCAGAGAATGAAGCCTTACCCTGGCTGACCTGA AGCAACTGCCGGAGCTGAACCCACCACTGCTGATGCCAGAGGAATGTGGGGACTCCCC TGCGGGTCTTTTTGGAGTTGATCCGGGCTGCCGCTACCCCTCGGATCATACCCAGC TGCAGCTCCAGTCCCCAAGACAGTTCTCCCGCGCTACGGCAATGTGCCTTTTGTGAGT ATGAGGACTCANAGACTGTGGAGCAGGAAGAGCTTGTGTATACAGCAGAGGGTGAAGGAA TACCCC
Restriction Sites:	Please inquire
ACCN:	NM_022078
Insert Size:	2171 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_022078.1 , NP_071361.1
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]