

Product datasheet for **RC220147**

GPATCH2 (NM_018040) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPATCH2 (NM_018040) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPATCH2
Synonyms:	CT110; GPATC2; Pfa1; PPP1R30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC220147 representing NM_018040
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTTTCGGGGCCCGGGCGCCAAACCGATCGGAGCTCCAGCAGCCGGAACAGCTGGCATTTCAGTAGAA
 CCATGGAGGAGCTGGTTTCATGACCTTGTCTCAGCATTGGAAGAGAGCTCAGAGCAAGCTCGAGGTGATT
 TGCTGAAACAGGAGACCATTCTCGAAGTATATCTTGCCCTCTGAAACGCCAGGCAAGGAAAAGGAGAGGG
 AGAAAACGGAGGTCGTATAATGTGCATACCCGTGGGAGACTGGTCACTGCTTAAGTGAAGGCTCTGATT
 CTAGTTTGAAGAACCAAGCAAGGACTATAGAGAGAATCACAATAATAATAAAAAAGATCACAGTGACTC
 TGATGACCAAATGTTAGTAGCAAAGCGCAGGCCGTCATCAAACTAAATAATAATGTTTCGAGGGAAAAGA
 CCTCTATGGCATGAGTCTGATTTTGCTGTGGACAATGTTGGGAATAGAACTCTGCGCAGGAGGAGAAAAGG
 TAAACGCATGGCAGTAGATCTCCACAGGACATCTCTAACAAACGACAATGACCCAGCCACCTGAGGG
 TTGTAGAGATCAGGACATGGACAGTGATAGAGCCTACCAGTATCAAGAATTTACCAAGAACAAGTCAAA
 AAAAGAAAGTTGAAAATAATCAGACAAGGACCAAAAATCCAAGATGAAGGAGTAGTTTTAGAAAGTGAGG
 AAACGAACCAGACCAATAAGGACAAAATGGAATGTGAAGAGCAAAAAGTCTCAGATGAGCTCATGAGTGA
 AAGTGATTCAGCAGTCTCAGCAGCACTGATGCTGGATTGTTTACCAATGATGAGGGAAGACAAGGTGAT
 GATGAACAGAGTGACTGGTTCTACGAAAAGGAATCAGGTGGAGCATGTGGTATCACTGGAGTTGTGCCCT
 GGTGGGAAAAGGAAGATCCTACTGAGCTAGACAAAATGTACCAGATCCTGTCTTTGAAAGTATCTTAAC
 TGGTCTTTTCCCTTATGTCACACCCAAGCAGAAGAGGTTTCCAAGCTAGACTCAGTCGCTTCATGGA
 ATGTCTTCAAAGAATATTAATAAATCTGGAGGGACTCCAATTCAATGGTACCCATTCTTGCCCCAGTGG
 GTAACAAGAGAATGGTTCATTTTCCCCGATTCTCATCACCATGACCATTGGTTTAGCCCTGGGGCTAG
 GACAGAGCATGACCAGCATCAGCTTCTGAGAGATAATCGAGCTGAAAGAGGACACAAGAAAAATTGTTCT
 GTGAGAACAGCCAGCAGGCAAAACAGCATGCATTTAGGATCCTTATGCACGGGAGATATCAAACGGAGAA
 GAAAAGCTGCACCTTTGCCTGGACCTACTACTGCAGGATTTGTAGGTGAAAATGCCAGCCAATCTAGA
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 AAGGGGATCTCTGAGCCAATTCAAGCCATGCAGAGGCCAAAGGGATTAGGACTTGGATTTCTCTACCAA
 AAAGTACTTCGCAACTACTACCCCAATGCAGGAAAATCCGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220147 representing NM_018040
 Red=Cloning site Green=Tags(s)

MFGAAGRQPIGAPAAAGNSWHFSRTMEELVHDLVSALEESSEQARGGFAETGDHSRSISCPKLRQARKRRG
 RKRRSYNVHHPWETGHCLSEGSDSLEEPSKDYRENHNNKDKHSDSDQMLVAKRRPSSNLNNNVRGKR
 PLWHESDFAVDNVGNRTLRRRRKVKRMAVDLPQDISNKRMTQPPEGCRDQDMSDRAYQYQEFTKNKVK
 KRKLKIIIRQGPQIODEGVVLESEETNQTNDKMECEEQKVSDLMSESDSSSLSTDAGLFTNDEGRQGD
 DEQSDWFYEKESGGACGITGVVPWWEKEDPTLTKNVPDPVFESILTGSFPLMSHPSSRRGFQARLSRLHG
 MSSKNIKKSGGTPTSMVPIPGVGNKRMVHSPDHHHDHWFSPGARTEHDQHLLRDNRERGHKKNCSS
 VRTASRQTSMLHLSLCTGDIKRRRKAAPLPGPTTAGFVGENAQPILENNIGNRMLQNMGWTPGSGLRDGD
 KGISEPIQAMQRPKGLGLGFPLPKSTSATTPNAGKSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8020_e09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_018040

ORF Size: 1584 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_018040.5](#)

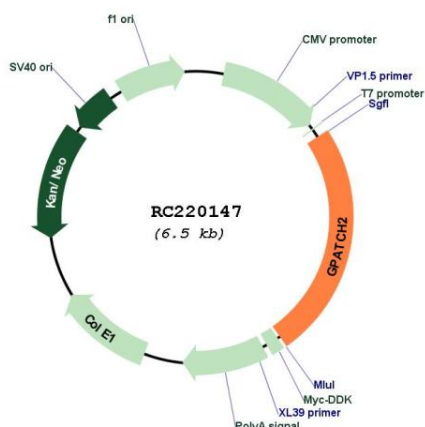
RefSeq Size: 2338 bp

RefSeq ORF: 1587 bp

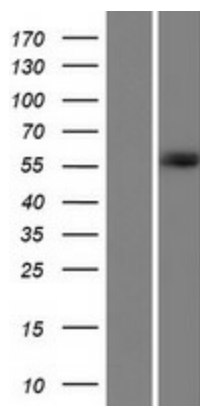
Locus ID: 55105

UniProt ID:	<u>Q9NW75</u>
Cytogenetics:	1q41
Domains:	G-patch
MW:	58.8 kDa
Gene Summary:	The gene encodes a nuclear factor that may play a role in spermatogenesis and in tumor growth during breast cancer. The encoded protein contains a G-patch domain with an RNA binding motif. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2017]

Product images:



Circular map for RC220147



Western blot validation of overexpression lysate (Cat# [LY413351]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220147 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).