

## Product datasheet for **RG237841**

### GPATCH2 (NM\_001297754) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPATCH2 (NM_001297754) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPATCH2
Synonyms:	CT110; GPATC2; Pfa1; PPP1R30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237841 representing NM_001297754. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTCCGGGGCCCGGGCGCAACCGATCGGAGCTCCAGCAGCCGGGAACAGCTGGCATTTCAGTAGA
ACCATGGAGGAGCTGTTTCATGACCTTGTCTCAGCATTGGAAGAGAGCTCAGAGCAAGCTCGAGGTGGA
TTTGCTGAAACAGGAGACCATTCTCGAAGTATATCTTGCCTCTGAAACGCCAGGCAAGGAAAAGGAGA
GGGAGAAAACGGAGGTCGTATAATGTGCATCACCCGTGGGAGACTGGTCACTGCTTAAGTGAAGGCTCT
GATTCTAGTTTAGAAGAACCAAGCAAGGACTATAGAGAGAATCACAATAATAAAAAAAGATCACAGT
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GAAAGTATCTTAACTGGTCTTTTCCCCTTATGTCACACCAAGCAGAAGGTTTCCAAGCTAGACTC
AGTCGCCCTTCATGGAATGTCTTCAAAGAATATTAATAAATCTGGAGGGACTCCAACCTCAATGGCTACA
AACTGGACCAGTGAGATCCCCTA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



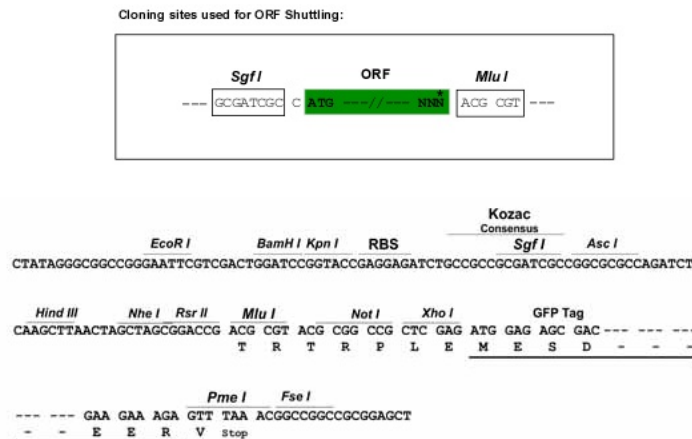
[View online »](#)

**Protein Sequence:** >Peptide sequence encoded by RG237841  
 Blue=ORF Red=Cloning site Green=Tag(s)

MFGAAGRQPIGAPAAGNSWHFSRTMEELVHDLVSALEESSEQARGGFAETGDHSRSISCP LKRQARKRR  
 GRKRRSYNVHHPWETGHCLSEGSDSSLEEPSKDYRENHNNKDHSDSDQMLVAKRRPSSNLNNVVRG  
 KRPLWHESDFAVDNVGNRTLRRRRKVKRMAVDLPQDISNKRTMTQPPEGCRDQDMSDRAYQYQEF TKN  
 KVKRRLKIIRQPKIQDEGVVLESEETNQTNKDKMECEEQKVSDELMSESDSSLSSTDAGLFTNDEG  
 RQGDDEQSDWFYEKESGGACGITGVVPWWEKEDPTELDKNVPDPVFESILTGSFPLMSPRRGFQARL  
 SRLHGMSKNIKSGGTPTSMATNWTSEIPL  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001297754

**ORF Size:** 1128 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).

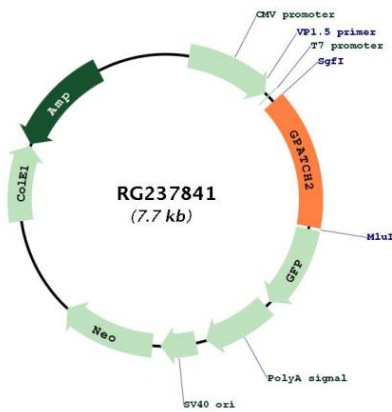
**RefSeq:** [NM\\_001297754.3](#)

**RefSeq Size:** 3273 bp

RefSeq ORF: 1131 bp  
 Locus ID: 55105  
 UniProt ID: [Q9NW75](#)  
 Cytogenetics: 1q41  
 MW: 43 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 RG237841