

## Product datasheet for **MG210913**

### **Ptchd2 (BC072569) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ptchd2 (BC072569) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ptchd2
Synonyms:	Disp3; G630052C06Rik; RNDEu-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>MG210913 representing BC072569  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACTCAGAGGATGATCCCCTGCTGCAGGATGTGTGGCTAGAAGAGGAACAGCCGGAAGATGAAGCCT  
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 GTGCTGTTCTTGGCTGCAGCATCCCCATGGTGTGTCTGCCTTCATGTTCTCTACTACCCGCCCTGG  
 ACATCGACATCTCTACAACGCCTTTGAGATCCGCAACCACGAGGCATCACAGCGCTTTGACGCCCTGGC  
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 ACGTTGCAGCGCCTCATCTCAGAGCAGTTCAGCAGCTGCACCTGGGGAATCATTCTCGACTGCATCCC  
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 TGGAGATGGAGAGGTGCCCTCCTCCAGGGCTGCTTCAGGCGCGAGCCCTCCCGCAAGTGGATGG

**ACGGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG210913 representing BC072569  
 Red=Cloning site Green=Tags(s)

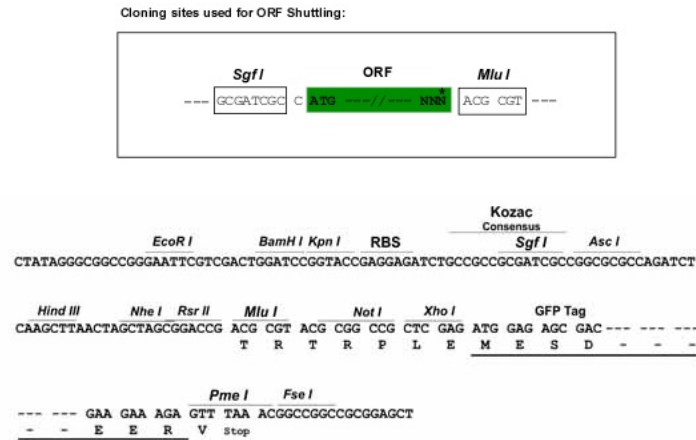
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FASRLRPASRAPLLFRPDTNIQVLLDLKYNLSAEGISCITCSGLFQEKPHSLQNNVRTSLEKKKRGSGVS
WASRTETTAQESMSTVYISKVKSKGHPAVYRLSLNASLPAPWQAVSPGDGEVPSFQGCRRRAPPASGW
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



ACCN: BC072569

ORF Size: 2517 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:** [BC072569](#), [AAH72569](#)

**RefSeq Size:** 4939 bp

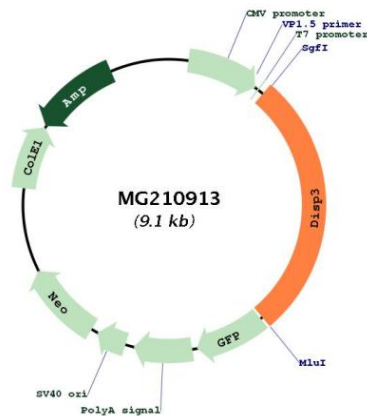
**RefSeq ORF:** 2519 bp

**Locus ID:** 242748

**Cytogenetics:** 4 E2

**Gene Summary:** Plays a role in neuronal proliferation and differentiation. Plays a role in the accumulation of cellular cholesterol. Involved in intracellular lipid droplet formation. May contribute to cholesterol homeostasis in neuronal cells.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG210913