

Product datasheet for **MG210841**

Ptchd2 (BC070441) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptchd2 (BC070441) 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:

>MG210841 representing BC070441
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTCAGAGGATGATCCCCTGCTGCAGGATGTGTGGCTAGAAGAGGAACAGCCGGAAGATGAAGCCT
 GCAGGGGTATCCCGGGCCAGGGCTGCAGTCCGGAGCACAGGGCTGCTGGCGACGCTGGACTGCCTTC
 CAGACCCCGACTTTGGGGTTCTGGAGCACTCTGGGCTGGGCCTTACCAACCCGTGCTGCGCAGGGCTG
 GTGCTGTTCTTGGCTGCAGCATCCCCATGGTGTGTCTGCCTTCATGTTCTCTACTACCCGCCCTGG
 ACATCGACATCTCTACAACGCCTTTGAGATCCGCAACCACGAGGCATCACAGCGCTTTGACGCCCTGGC
 CTTGGCCCTCAAGTCCCAGTTTGGATCTTGGGGCGCAACAGGCGCGACCTGGCGGACTTCACTCCGAG
 ACGTTGCAGCGCCTCATCTCAGAGCAGCTTCAAGCAGCTGCACCTGGGGAATCATTCTCGACCTGCATCCC
 GAGCTCCTCGCTCAGCACCGAGGGACACTGTTGCCACTCAGACATCAGCAGCCAATTCGAGTGAGCGACG
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 TGGGATTAATCGCGCACCTATGTGAGCGCAACACCCAAACACACGCGCATTGGCGAATCGAGCTCATCT
 TTCTGGCTCGCGGAGACGCGGAGCGCAACATTTTACGAGCGAGCGTCTAGTCACGATCCACGAGATCGA
 GCGTAAAATCATGGACCACCCGGGTTTCCGGGAGTTTCTGCTGGAAGCCCATGAGGTGCTCAAGGACCTG
 CCGCTCGGATCCTATTCTACTGCTCCCGCCTAGTTCTCTCATGACTTACTTTTTCCCAACCGAGAGGG
 GCGGCAAGATCTACTACGACGGCATGGGCCAGGACCTGGCGGATATCCGGGGCTCCCTAGAAGTGGCCAT
 GACTCACCTGAGTTCTACTGGTATGTGGATGAGGGGCTCTCCGTGGATAATCTGAAGAGCTCCCTCCTG
 CGCAGTGAGATCCTGTTGGAGCGCCGCTTCCCACTACTACTCAGTGGATGATCGTGGGAGGAGCAGA
 GGGCAAGTTTCAAGCTTCGTAGTACAGTATGTGGCCATGCTCGCCAAGCAGTCCCACTGCAAAAGTCCA
 GGTCTCTATGGGGGACAGACCTCTTCGACTATGAGGTACGCCGAACCTTCAATAACGACATGCTCCTT
 GCCTTCATTAGCAGTAGCTGCATCGCGGCCCTCGTCTACATCCTAACCTCCTGCTCAGTGTCTCTGTCT
 TCTTTGGGATCGCCAGCATCGGTCTCAGCTGCCTGGTGGCACTCTTCTCTACCACGTGGTCTTTGGCAT
 CCAGTACTTGGGATCCTCAATGGAGTGGCCGCTTTGTGATTGTGGCATTGGTGTGGACGATGTCTTT
 GTATTCATCAACACTTACCGCCAGGCCACCCACCTGGAAGACCCCAACTGCGGATGATCCACACCATCC
 AGACTGCAGGCAAAGCCACCTTCTCACCTCGCTGACCACCGCCCGCCTTATGCGGCAACGTCTTCTC
 CCAGATCCAGCTGTGCATGACTTCGGCTTGTTCATGTCCCTCATTGTGACCTGCTGCTGGCTGGCTGTG
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 ACAGCTGCCACCAGAAGTGCAGCCGCAAGAGCTCCTTGCAATTTCTGGGACCTGTTACAGGCTCCGGA
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 CCACCCCTGATGCAAACAGCAGGGGCCAGCTCCTCGCCAGCTGCAAGAGCTGCTGCACCACTGGGTCTT
 ATGGGCAGCCGTCAAGAGCCGCTGGGTGATCGTAGGGCTTTTCGCTCCATCCTTATCCTGTCCCTGGT
 TTCGCCAGCCGGCTCCGCCCTGCCAGCCGGGCCCACTCCTCTCCGCGCGGACCAACATTCAAGTGC
 TACTGGACCTCAAGTACAACCTGAGCGCCGAGGGGATATCCTGCATCACCTGCTCAGGTCTGTTCCAGGA
 GAAGCCCCACAGCCTGCAGAACAATGTCAGGACATCCCTGGAGAAGAAGAAGCGAGGTTCTGGGGTTTCC
 TGGGCCAGCCGCACTGAGACCACTGCACAGGAGTCCATGAGCACCGTGTACATCTCAAAGTGAAGAGCA
 AAGGCCACCCAGCGTCTACCGCTCTCTCAATGCCAGCCTACCAGCACCTGGCAAGCTGTGTCCC
 TGGAGATGGAGAGGTGCCCTCCTCCAG

ACGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210841 representing BC070441
 Red=Cloning site Green=Tags(s)

MSEDDPLLQDVWLEEEQPEDEACRGIPGPGQLQSGAQGCWRRWTLPSRPPTLGFWSTLGWAFTNPCCAGL
 VLFLGCSIPMVLSAFMFLYPPLDIDISYNAFEIRNHEASQRFDALALALKSQFGSWGRNRRDLADFTSE
 TLQRLISEQLQLHLGNHSRPASRAPRSAPRDTVATQTSAAANSERRRRREAPSPEGQVTNQSRARRGASR
 WDYSRTYVSANTQTHAHWRIELIFLARGDAERNIFTSERLVTIHEIERKIMDHPGFREFCWPHEVLKDL
 PLGSYSYCSPPSSLMTYFFPTEGKIIYYDGMGQDLADIRGSLELAMTHPEFYWYVDEGLSVDNLKSSLL
 RSEILFGAPLPNYYSVDDRWEQRAKFQSFVVTYVAMLAKQSTSKVQVLYGGTDLFDYEVRRTFNNDMLL
 AFISSSCIAALVYILTSCSVFLSFFGIASIGLSCLVALFLYHVVFQIYLGILNGVAAFVIVGIGVDDVF
 VFINTYRQATHLEDPQLRMIHTIQTAGKATFFTSLTAAAYAANVFSQIPAVHDFGLFMSLIVTCCWLAV
 LFTMPAALGLWSLYMAPLESSCQNSCHQKCGRKSSLHFPGLFTAPERAGGGPAQGPLYLDDDIPLLNV
 EDEPASLELGDVSLVSVHCEGLQPTDANSRQLLAQLQELLHHWVLAQVKSRRWVIVGLFASILILSLV
 FASRLRPASRAPLLFRPDTNIQVLLDLKYNLSAEGISCITCSGLFQEKPHSLQNNVRTSLEKKKRGSGVS
 WASRTETTAQESMSTVYISKVKSKGHPAVYRLSLNASLPAPWQAVSPGDGEVPSFQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: BC070441

ORF Size: 2478 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: [BC070441.1](#)

RefSeq Size: 5174 bp

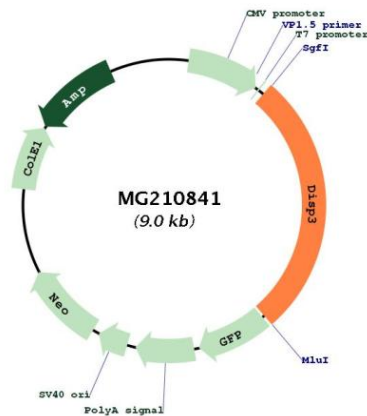
RefSeq ORF: 2480 bp

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 MG210841