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Product datasheet for MR210913

Ptchd2 (BC072569) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptchd2 (BC072569) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptchd2
Synonyms:	Disp3; G630052C06Rik; RNDEu-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR210913 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACTCAGAGGATGATCCCCTGCTGCAGGATGTGTGGCTAGAAGAGGAACAGCCGGAAGATGAAGCCT
GCAGGGGTATCCCCGGGCCAGGGCTGCAGTCCGGAGCACAGGGCTGCTGGCGACGCTGGACACTGCCTTC
CAGACCCCCGACTTTGGGGTTCTGGAGCACTCTGGGCTGGGCCTTCACCAACCCGTGCTGCGCAGGGCTG
GTGCTGTTCCTTGGCTGCAGCATCCCCATGGTGCTGTCTGCCTTCATGTTCCTCTACTACCCGCCCCTGG
ACATCGACATCTCCTACAACGCCTTTGAGATCCGCAACCACGAGGCATCACAGCGCTTTGACGCCCTGGC
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ACGTTGCAGCGCCTCATCTCAGAGCAGCTTCAGCAGCTGCACCTGGGGAATCATTCTCGACCTGCATCCC
GAGCTCCTCGCTCAGCACCGAGGGACACTGTTGCCACTCAGACATCAGCAGCCAATTCGAGTGAGCGACG
TCGCCGGGAGGCTCCGTCCCCGGAGGGTCAGGTAACCAATCAGAGCCGGGCCCGTCGGGGCGCCTCGCGC
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TTCTGGCTCGCGGAGACGCGGAGCGCAACATTTTCACGAGCGAGCGTCTAGTCACGATCCACGAGATCGA
GCGTAAAATCATGGACCACCCGGGTTTCCGGGAGTTCTGCTGGAAGCCCCATGAGGTGCTCAAGGACCTG
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GCGGCAAGATCTACTACGACGGCATGGGCCAGGACCTGGCGGATATCCGGGGCTCCCTAGAACTGGCCAT
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CGCAGTGAGATCCTGTTTGGAGCGCCGCTTCCCAACTACTACTCAGTGGATGATCGCTGGGAGGAGCAGA
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GGTCCTCTATGGGGGGACAGACCTCTTCGACTATGAGGTACGCCGAACCTTCAATAACGACATGCTCCTT
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AGACTGCAGGCAAAGCCACCTTCTTCACCTCGCTGACCACCGCCGCCGCTTATGCGGCCAACGTCTTCTC
CCAGATCCCAGCTGTGCATGACTTCGGCTTGTTCATGTCCCTCATTGTGACCTGCTGCTGGCTGGCTGTG
CTGTTCACCATGCCTGCGGCCCTGGGCCTCTGGAGCCTCTACATGGCGCCCCTGGAGAGCTCCTGCCAGA
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AAGGCCACCCAGCGGTCTACCGGCTCTCTCTCAATGCCAGCCTACCAGCACCCTGGCAAGCTGTGTCCCC
TGGAGATGGAGAGGTGCCCTCCTTCCAGGGCTGCTTCAGGCGGCGAGCCCCTCCCGCAAGTGGATGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

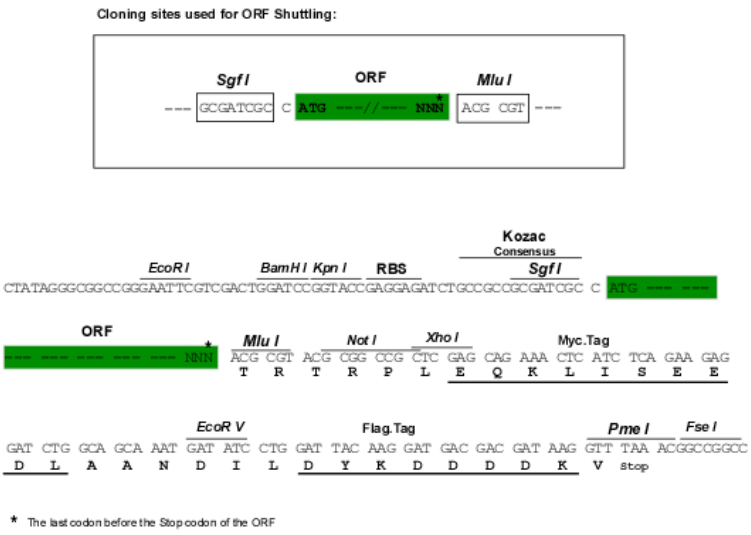
>MR210913 protein sequence
Red=Cloning site Green=Tags(s)

MDSEDDPLLQDVWLEEEQPEDEACRGIPGPGLQSGAQGCWRRWTLPSRPPTLGFWSTLGWAFTNPCCAGL
VLFLGCSIPMVLSAFMFLYYPPLDIDISYNAFEIRNHEASQRFDALALALKSQFGSWGRNRRDLADFTSE
TLQRLISEQLQQLHLGNHSRPASRAPRSAPRDTVATQTSAANSSERRRREAPSPEGQVTNQSRARRGASR
WDYSRTYVSANTQTHAHWRIELIFLARGDAERNIFTSERLVTIHEIERKIMDHPGFREFCWKPHEVLKDL
PLGSYSYCSPPSSLMTYFFPTERGGKIYYDGMGQDLADIRGSLELAMTHPEFYWYVDEGLSVDNLKSSLL
RSEILFGAPLPNYYSVDDRWEEQRAKFQSFVVTYVAMLAKQSTSKVQVLYGGTDLFDYEVRRTFNNDMLL
AFISSSCIAALVYILTSCSVFLSFFGIASIGLSCLVALFLYHVVFGIQYLGILNGVAAFVIVGIGVDDVF
VFINTYRQATHLEDPQLRMIHTIQTAGKATFFTSLTTAAAYAANVFSQIPAVHDFGLFMSLIVTCCWLAV
LFTMPAALGLWSLYMAPLESSCQNSCHQKCGRKSSLHFPGDLFTAPERAGGGPAQGPLPYLDDDIPLLNV
EDEPASLELGDVSLVSVHCEGLQPTPDANSRGQLLAQLQELLHHWVLWAAVKSRWVIVGLFASILILSLV
FASRLRPASRAPLLFRPDTNIQVLLDLKYNLSAEGISCITCSGLFQEKPHSLQNNVRTSLEKKKRGSGVS
WASRTETTAQESMSTVYISKVKSKGHPAVYRLSLNASLPAPWQAVSPGDGEVPSFQGCFRRRAPPASGW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC072569

ORF Size: 2517 bp

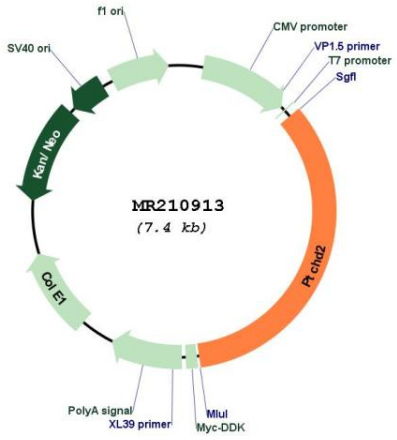
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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
MW:	93.5 kDa
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 MR210913