

Product datasheet for MC224316

Disp3 (NM_001083342) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Disp3 (NM_001083342) Mouse Untagged Clone
Tag: Tag Free
Symbol: Disp3
Synonyms: G630052C06Rik; Ptchd2; RNDEu-2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224316 representing NM_001083342
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACTCAGAGGATGATCCCCTGCTGCAGGATGTGTGGCTAGAAGAGGAACAGCCGGAAGATGAAGCCT
 GCAGGGGTATCCCCGGGCCAGGGCTGCAGTCCGGAGCACAGGGCTGCTGGCGACGCTGGACTGCCTTC
 CAGACCCCGACTTTGGGGTTCTGGAGCACTCTGGGCTGGGCCTCACCAACCCGTGCTGCGCAGGGCTG
 GTGCTGTTCCCTGGCTGCAGCATCCCCATGGTGTCTGTCTGCCTTCATGTTCTCTACTACCCGCCCTGG
 ACATCGACATCTCCTACAACGCCTTTGAGATCCGCAACCACGAGGCATCACAGCGCTTTGACGCCCTGGC
 CTTGGCCCTCAAGTCCCAGTTTGGATCTTGGGGCGCAACAGGCGCGACCTGGCGGACTTCACCTCCGAG
 ACGTTGCAGCGCCTCATCTCAGAGCAGCTTCAGCAGCTGCACCTGGGGAATCATTCTCGACTGCATCCC
 GAGCTCCTCGCTCAGCACCGAGGGACACTGTTGCCACTCAGACATCAGCAGCCAATTCGAGTGAGCGACG
 TCGCCGGGAGGCTCCGTCCCCGGAGGGTCAGGTAACCAATCAGAGCCGGGCCCGTGGGGCGCCTCGCGC
 TGGGATTACTCGCGCACCTATGTGAGCGCAACACCCAAACACACGCGCATTGGCGAATCGAGCTCATCT
 TTCTGGCTCGCGGAGACGCGGAGCGCAACATTTTCACGAGCGAGCGTCTAGTCACGATCCACGAGATCGA
 GCGTAAAATCATGGACCACCCGGGTTTCCGGGAGTTCTGCTGGAAGCCCATGAGGTGCTCAAGGACCTG
 CCGCTCGGATCCTATTCTACTGCTCCCCGCTAGTTCTCTCATGACTTACTTTTTCCCCACCGAGAGGG
 GCGGCAAGATCTACTACGACGGCATGGCCAGGACCTGGCGGATATCCGGGGCTCCCTAGAAGTGGCCAT
 GACTCACCTGAGTTCTACTGGTATGTGGATGAGGGGCTCTCCGTGGATAATCTGAAGAGCTCCCTCCTG
 CGCAGTGAGATCCTGTTGGAGCGCCGCTTCCCAACTACTACTCAGTGGATGATCGCTGGGAGGAGCAGA
 GAGCCAAGTTTCAGAGCTTCGTAGTCACGTATGTGGCCATGCTCGCAAGCAGTCCACTAGCAAAGTCCA
 GGTCTCTATGGGGGACAGACCTTTCGACTATGAGGTACGCCAACCTTCAATAACGACATGCTCCTT
 GCCTTCATTAGCAGTAGCTGCATCGCGCCCTCGTCTACATCCTAACCTCCTGCTCAGTGTCTCTGTCT
 TCTTTGGGATCGCCAGCATCGGTCTCAGCTGCCTGGTGGCACTCTTTCTCTACCAGTGGTCTTTGGCAT
 CCACTACTGGGCATCCTCAATGGAGTGGCCGCTTTGTGATTGTGGCATTGGTGTGGACGATGTCTTT
 GTATTCATCAACACTTACCGCCAGGCCACCCACCTGGAAGACCCCAACTGCGGATGATCCACACCATCC



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AGACTGCAGGCAAAGCCACCTTCTTACCTCGCTGACCACCGCCGCCGCTTATGCGGCCAACGTCTTCTC
 CCAGATCCCAGCTGTGCATGACTTCGGCTTGTTCATGTCCCTCATTGTGACCTGCTGCTGGCTGGCTGTG
 CTGTTACCATGCCTGCGGCCCTGGGCCTCTGGAGCCTCTACATGGCGCCCTGGAGAGCTCTGCCAGA
 ACAGCTGCCACCAGAAGTGGCGCCGAAGAGCTCCTTGCATTTTCTGGGGACCTGTTACAGGCTCCGGA
 GCGGGCTGGGGTGGCCCTGCTCAGGGTCCCCTCCCCTATCTGGATGATGATATCCCCTTGTGAATGTG
 GAGGATGAGCCAGCGTCCCTAGAGCTGGGAGATGTGTCACTGGTCTCTGTGCAGTGTGAGGGTTGCAGC
 CCACCCCTGATGCAAACAGCAGGGGCCAGCTCCTCGCCAGCTGCAAGAGCTGCTGCACCACTGGGTCTT
 ATGGGCAGCCGTCAAGAGCCGCTGGGTGATCGTAGGGCTTTTCGCCTCCATCCTTATCCTGTCCCTGGTG
 TTCGCCAGCCGGCTCCGCCCTGCCAGCCGGGCCCACTCCTTCCGGCCGGACCAACATTCAAGTGC
 TACTGGACCTCAAGTACAACCTGAGCGCCGAGGGGATATCCTGCATCACCTGCTCAGGTCTGTTCCAGGA
 GAAGCCCCACAGCCTGCAGAACAATGTCAGGACATCCCTGGAGAAGAAGAAGCGAGGTTCTGGGGTTTC
 TGGGCCAGCCGACTGAGACCACTGCACAGGAGTCCATGAGCACCCTGTACATCTCAAAGTGAAGAGCA
 AAGGCCACCCAGCGGTCTACCGCTCTCTCAATGCCAGCCTACCAGCACCTGGCAAGCTGTGTCCC
 TGGAGATGGAGAGGTGCCCTCCTCCAGGTGTATAGAGCGCTTTTGGTACTTACCAAGAAGCTGACC
 GCTTGTATGTCTACAGTAGGGCTGCTTCAGGCGGAGCCCTCCGCAAGTGGATGGTGACGGCCTTGG
 CCTGTGACGCCCCGAGGGGCTGGAAGTTTACTTACAGCTTTTACGTGGCCACCAAGGAGCAACAGCACAC
 TCGGAAGCTGTACTTTGCTCAGTCCCACAAGCCCCCTTCCACGGGCGCCTGTGTGTGGCCACCTGGG
 TGCTTGTCTCAGCTCCAGCCCTGATGGGCCACCAAAGGCTTCTTCTATGTGCCTAGTGACAAAGTACCCA
 AGGCCCGCATCTCTGCCACCTTTGGCTTCAACCCTTGTGTGAACACGGGCTGTGGGAAGCCTGCGGTGCG
 TCCGCTGGTGGACACAGGAGCCATGGTCTTCGTGGTGTGGCATCATTGGACTCAACCGCACCAACAG
 ATGGACAACCAGTTATCGGGGACCCGGGAGCGTCTACACAGCAGCTTTGACCTTCAAAGAGA
 TCGGGCAGCTGTGCGCTCTGCAAGGCCATCGCGGGCAACTCGGAGTGTGAGCCAGGCGGGGCCCA
 GTGCTTGCATCAGGATACAGCATCTCTTCTTCTGCAGATGTTGCACCCGAGTGAAGGAGCTGCCT
 GAGCCCCAACCTGCTGCCAGGGCAGCTATCCCACGGGCGAGTGGGTGTCAAAGAGGGCCGTGTGAGTGA
 TCTCCATGGCCTTTGAGTCGACCACATAAAGGGCAAGTCTCCTTCCAGACCTACTCAGACTACTTGC
 TTGGGAGAGCTTCTCCGGCAGCAGCTGCAGACATTCCCCGAGGGCTCAGCCCTGCACCGAGGCTTCCAG
 ACCTGTGAGCACTGGAAGCAGATCTTATGGAGATCATAGGGGTACAGAGTGCCTGTATGGCCTGGTCC
 TCTCTACTCATCTGTGTGGCTGCGGTGGCCGTGTTACCACCCATGCTCCTCTGCTGCTGCTGTGCT
 CCTGAGTATCCTAGGCATCGTCTGCCTCGTGGTGACCATCATGTACTGGAGCGGCTGGGAGATGGGTGCT
 GTGGAGGCTATCTCCCTGTCCATCCTGGTGGCTCCTCTGTGGATTACTGTGCCATCTGGTAGAAGGCT
 ACTTGCTGGCTGGGAGAACCTACCCACAGCAGGCTGAGGATCCCAGCTCTCAGCGCCAGTGGAGGAC
 CCTCGAGGCTGTCCGGCATGTAGGCGTGGCCATCGTGTCCAGTGCCTCACCACCGTATTGCCACCGTC
 CCACTCTTCTTCTGCATCATCGCCCCGTTCCGCAAGTTCGGGAAGATCGTGGCACTCAACACAGGCGTGT
 CCATCCTCTACACTCTCACCGTCAAGCCCTGCTGGGCATCATGGCTCCCGTTCTTACCCGGAC
 CAGGACTTCTTTCTAAGGCCCTGGGTGCTGTGCTGCTGGCAGGAGCCCTAGGACTGGGTGCCTGTCTT
 GTGCTCCTGCGCAGTGGCTACAAGATCCCCCTGCCAGCGGGGCCACGCTA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001083342
- Insert Size:** 4044 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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.

RefSeq: [NM_001083342.1](#), [NP_001076811.1](#)

RefSeq Size: 8689 bp

RefSeq ORF: 4044 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]