

Product datasheet for **MC224292**

Dip2b (NM_172819) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dip2b (NM_172819) Mouse Untagged Clone
Tag: Tag Free
Symbol: Dip2b
Synonyms: 4932422C22; AI317237; AI854602; mKIAA1463
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224292 representing NM_172819
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTTGGCTTTACAGAAGGTGCTGTGAAGTACTGCTGTGAAGAAAGGAGCTCTACAAGAGAAGAGGGAG
 CCTGGGTAGCCTTTCCATGTGTTCTGTCAATAGCAGGGTGTCCACAAAAATTCAGCAGCTTCTCAACAC
 CCTGAAGCGACCCAAAAGACCCCTTAAAGGAATTTTTGTGGATGACTCTGAAGAAATGTGGAAGTA
 CCTCAGCCAGATCCCAACAGCCAAAGCCTGAAGGCCCGCAGATGACCCAGTGAAGGAGAGCCCTGG
 GCGTCATCTGTAAGTGGCCACCTGCACTGGAATCTGCCCTGCAGCGCTGGGGCTCTACCCAGCCAAAGT
 CCCCTGCCTGACTGGGCTGGATGTGACGGGAAACCAGTCTACACTCTCACATACGGAAGTTGTGGAGC
 AGAAGTTTAAAGTTGGCTTACACACTGCTTAATAAACTGGGAACAAAAATGAACCTGTGTTAAACCTG
 GAGACAGGGTTGCCCTGGTTTACCCCAACAATGACCCTGTGTTTATGGTGGCTTTTATGGATGTCT
 CCTGGCAGAAGTGATTCCAGTACCCATAGAAGTACCCCTGACCAGAAAGGATGCCGGAGGTGACGAGATT
 GGCTTCTTGCTAGGGAGCTGTGGGATTGCCTTAGCTCTCACCAGTGAAATTTGTCTGAAAGGCCTGCCAA
 AAACCCAGAATGGAGAAATGTACAGTTTAAAGTTGGCCTCGCCTCAAGTGGTTGTGACAGATTCTAA
 GTACCTCTCGAAGCCGCCAAAGACTGGCAGCCACACATATCACCTGCGGGCACGGAACCCGCATACATT
 GAGTATAAAACAAGCAAAGAAGGGAGTGTGATGGGAGTACGGTGTGCGGGCTCGCAATGCTGTCTCAGT
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 GCGGATGCTGATTGTACCGACGGCGCCAATCCCTGGTCTGTGTCGTCTGTGATGCTTCTGAGTCTC
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 CCATCCGAAGGCCTGGGGTTCCAGGGGCTCCTTTGCCAGGAAGGCCATTCTCTCAATGAATGGACTGAG
 CTATGGGGTCATACGGGTCAATACTGAGGATAAAAATTCAGCACTGACAGTTCAGGATGTGGGACATGTG
 ATGCCTGGAGGCATGATGTGCATTGTGAAACCAGACGGACTTCTCAGCTCTGCAGGACAGATGAGATTG



GAGAGATCTGTGTCAGCTCCAGGACTGGAGGGATGATGTACTTTGGACTTGCTGGTGTGACCAAAAATAC
 ATTTGAGGTGATTCCAGTGACTTCTTCAGGCTCTCCTGTAGGGGACGTACCCCTCATCCGGTCAGGGCTG
 CTGGGATTTGTAGGGCCTGGTAGCTTGGTGTTCGTGGTTGGAAAAATGGATGGATTACTCATGGTCAGCG
 GCCGAAGACATAACGCCGATGACATTGTTGCTACTGGATTGGCTGTGGAGTCCATAAAGACCGTCTATCG
 AGGAAGAATTGCTGTGTTTTCTGTGTCTGTGTTTTATGACGAGCGCATTGTGGTGGTGGCAGAACAAGG
 CCCGATGCGTCTGAGGAAGACAGTTTCCAGTGGATGAGCCGGTGTCTGCAGGCAATCGACAGCATCCATC
 AAGTCGGCGTGTACTGTCTTGCCTGGTGGCAGCTAACACGTTACCAAAAACCCACTAGGAGGAATCCA
 TATATCCAGACAAAACAGCTCTTTCTGGAGGGTCTCTACACCCGTGAATATCCTCATGTGCCACAT
 ACGTGTGTGACGAACTTGCCAAAGCCCCGACAAAAGCAACCAGGTGTAGGCCCTGCTTCTGTGATGGTTG
 GGAATCTGGTTGCTGGTAAACGCATAGCACAGGCTGCCGGAAGGGACCTGGGCCAAATAGAAGAGAATGA
 CCTGGTGAAGAACACCAGTTCCTGGCAGAGATTTTGCAGTGGCAGCCAGGCAACTCCTGACCATGTC
 CTCTTCATGCTGTTAAATGCCAAGGGAACACTGTGTGCACAGCCAGCTGCCTTCAGCTTCATAAGCGAG
 CAGAGAGGATCGCTTCAGTACTTGGTGACAAGGGACATCTGAATGCAGGGGACAATGTAGTATTGCTCTA
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 CGCCCCCTCATGCGCAGAACCTCACTGCTACCTTGCCACAGTACGCATGGTCTGTGATGTCAGCAAGG
 CAGCGTGTGCTTACCCTCAAACCTCTGATGAGGTTGCTCAAGTCTCGAGAGGCAGCGGACGCTGTGGA
 TGTGAAAACCTGGCCAGCCATCATTGATACAGATGACTTACCCAGGAAACGGCTACCTCAGCTGTATAAA
 CCGCCACTCCTGAGATGTTGGCGTATCTTGATTTTCCAGCGTTTCCACAACCTGGCATGCTCACAGGGTGA
 AGATGTCCCACTCTGCAGTCAATGCTCTCTGCAGAGCCATCAAGTGCAGTGCGAATTGACTCTTCCC
 GCAGATCGCCATCTGCCTTGACCCTTACTGTGGACTTGGCTTGGCACTCTGGTGTCTCTGCAGTGTGAT
 TCGGGTACCAGTCCGCTTGTATCCCTCCTATGGAGCTGGAAAACAACCTTTTCTCTGGCTCGCCACTG
 TCAACCACTACAAGATCAGGGACACCTTCTGCTCTACTCAGTCAATGGAGCTGTGCACTAAAGGGCTGGG
 GAACCAAGTGGAGTGTGAAGACCAGAGGGATCAATCTTTCTTGCATCCGGACCTGTGTGGTGGTGGCA
 GAGGAGCGGCCCGTGTACGCTTCAGCAGTCTTCTCCAAGCTTTCAAGACATCGGTCTGTCCCTC
 GAGCTGTGACGACCACTTTTGGATCCAGAGTCAATGTAGCAATATGTTTACAGGGAACCTCAGGGCCGGA
 TCCAACAACCTGTGATGTGGATCTGAAGTGCCTGAGACATGACAGGGTCCGTCTTGTGGAACGGGTGCC
 CCCAGAGCCTCTGCTTCTGAATCTGAAAAGATCTTACCTGGAGTAAAAGTAGTTATTGTCAATCCTG
 AGACCAAAGGACCTGTTGGAGACTCTCACCTGGGAGAGATCTGGTGAATAGCCCCCATACCGCAGTGG
 CTAATAACCATCTACGACAGCGAGACTTCAAGCTGATCATTCAATACCCGCTGAGCTTTGGAGAT
 GCTGCCAGACACTCTGGGCCCGACAGGATACCTCGGGTTTGTCCGAGGACTGAGCTCACTGCAGCCA
 CTGGAGAAGCCATGACGCTTGTATGTGGTGGTGCCTGGATGAGACTGGAGCTGAGGGGATTGCG
 ATACCATCCTATCGATATAGAGACCTCCGTGTCCCGCTCCACAGGAGCATTGCTGAATGTGCTGTGTT
 ACGTGGACCAACTTGCTGGTGGTCTGTGGAACATATGCGGCTCTGAACAGGAAGCCCTGGACCTGGTTC
 CTCTCGTACCAATGTGGTCTGGAAGAGCATTACCTCATCGTGGGTGTTGTGGTTGTTGTGACCCGGG
 CGTTGTCCCACTCAACTCCAGAGGAGAGAAGCAGAGGATGCACCTCCGAGACAGCTTCTCGCCGACCAG
 TTAGACCTATCTATGTGGCTTACAACATGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_172819
- Insert Size:** 4023 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_172819.3](#), [NP_766407.2](#)

RefSeq Size: 8127 bp

RefSeq ORF: 4023 bp

Locus ID: 239667

Cytogenetics: 15 F1

Gene Summary: Negatively regulates axonal outgrowth and is essential for normal synaptic transmission (PubMed:32153366). Not required for regulation of axon polarity (PubMed:32153366). Promotes acetylation of alpha-tubulin (PubMed:32153366).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) differs in the 5' UTR and has multiple coding region differences, compared to variant 1. These differences causes translation initiation at a downstream AUG and results in an isoform (2) with a shorter N-terminus compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.