

Product datasheet for **MC228342**

Dtx2 (NM_001256097) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dtx2 (NM_001256097) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dtx2
Synonyms:	2610524D08Rik; AA408415; AU022494; Deltex2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228342 representing NM_001256097
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCATGGCCCAAGCTCGTCTCTGCCGAGGTGTACCCTAGCCACGTGGTGGTGTGTGGGAAT
 GGCAGGATGGGCTTGGCATTGGCACCCCTACAGTGCCACTGTCTGCTCCTTCATTGAGCAGCATTTTGT
 CCGGCAGAGGGGCCAGCATTGGACTGGGAAGCCTGGCCACAGCATCCCTTAGGCCAAGCTGACCCC
 TCACTGGCCCTTACATCATCGACCTCCCCAGCTGGACTCAGTTTCGCCAGAACACTGGCACCATGAGGT
 CTGTGCGCAGACACTGTTCTCACAGAATTCTGCCCCAGGCCAGGGCATCGTCTGGGAGTGGCTGGGCGA
 TGACGGATCCTGGGTAGCCTATGAAGCTAGAATCTGTGACTATCTGGAACAGCAAGTGGCCCGGGGCATC
 CAGGTCGTGGACTTGGCACCCTGGGGTATAACTATACTGTCAACTATGCCACCCTAACCCAAACCAACA
 AGACTTCCAGCTTCTGCCGGAGTGTGCGACGCCAAGTGGGGCCAGTTTACCCAGTGACTTCAGACATCGC
 GTTCCACGCCAAATGGGACTTATCTGCTTTTGGCAACAGTGCCTCCATGGTAGCGGAACGGCCCTGTG
 TCGGGCCGCTACCGCCACTCCATGACCAACCTGCCTGCATATCCTGCCCCCAAGCACCCACCGGACCA
 CCACTGTCTCTGGGGCCACCAGGCCTTTGCCCATACAATAAACCTTCACTGTCTGGGGCCAGATCTGC
 ACCAAGTTGAACACCACCAACCCTGGGCTGCAGCACCTCCTGTTGCAGGCAACCAGTCCCTGTTCCAC
 TCCAGCCTCTCCACCTGGGGCCTCAGCTCCTGCCCTCAGGACCGTCCACCTCCAGTGGAGCCAGTGCCCT
 CTTCCCCAGCGGGCCCTCCTCCAGCAGCCAGGGAGCGCCCCACCCTGTGCCGTGCAGATGCCAAA
 GGCCAGCAGGGTCCAGCAGGCGCTTGCAGAAGGGGCGCCTAAGCCCGAGCCGGAGCAGGTGATCAGAAAG
 TACCCGAGGAGTGAAAGTGGCCCTGAAGAGGACTGCATTATCTGTATGGAGAAACTGGCTGTGGCTT
 CTGGGTACAGTGACATGACTGACAGCAAGGCCCTCGGGCCATGGTCTGGGGCCGCTCACCAAGTGCAG
 CCATGCCTTCCACCTGCTGTGCCTGCTGGCCATGTATTGCAACGGGAACAAGGACGGGAGTCTTCAGTGT
 CCGTCTGCAAAAACCATCTATGGGGAGAAGACTGGGACGACGCCCTGGGGGAAGATGGAGGTGTTACGTT
 TCCAAATGTCCCTCCCAGGCCATGAAGACTGTGGGACTATACTCATTGTTTACAACATCCCTCATGGCAT
 CCAGGGACCAGAGCACCCAGCCCTGGGAAGCCATTCACTGCCCGGGGCTTTCCCGGCAATGCTACCTG
 CCAGATAGCCCTCAGGGCCGCAAGGTCTGGAGCTCCTGAAGGTGGCCTGGAAGAGGCGACTCATTTTTTA
 CCGTGGGCACTTCCAGCACACAGGTGAGACCGACACCGTGGTGTGGAACGAGATCCACCACAAGACCGA
 GATGGACCGCAACGTGACAGGCCAGGCTATCCGGACCCCAACTACCTGCAGAATGTGCTGGCTGAGCTC
 GCTGCCAGGGAGTGACCGAAGACTGCCTGGAACAGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001256097
- Insert Size:** 1722 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001256097.1](#), [NP_001243026.1](#)

RefSeq Size: 2598 bp

RefSeq ORF: 1722 bp

Locus ID: 74198

UniProt ID: [Q8R3P2](#)

Cytogenetics: 5 G2

Gene Summary: Regulator of Notch signaling, a signaling pathway involved in cell-cell communications that regulates a broad spectrum of cell-fate determinations. Probably acts both as a positive and negative regulator of Notch, depending on the developmental and cell context. Mediates the antineural activity of Notch, possibly by inhibiting the transcriptional activation mediated by MATCH1. Functions as a ubiquitin ligase protein in vitro, suggesting that it may regulate the Notch pathway via some ubiquitin ligase activity (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) has an additional exon in the 5' UTR and lacks an in-frame exon in the coding region, compared to variant 1. The resulting isoform (3) lacks an internal segment, compared to isoform 1. Variants 3 and 4 encode the same isoform 3.