

## Product datasheet for **MR218205**

### **Dtx2 (NM\_023742) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dtx2 (NM_023742) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dtx2
Synonyms:	2610524D08Rik; AA408415; AU022494; Deltex2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR218205 representing NM\_023742  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCATGGCCCAAGCTCGTCTCTGCCGAGGTGTACCCTAGCCACGTGGTGGTGTGTGGGAAT  
 GGCAGGATGGGCTTGGCATTGGCACCCCTACAGTGCCACTGTCTGCTCCTTCATTGAGCAGCATTTTGT  
 CCGGCAGAGGGGCCAGCATTTTGGACTGGGAAGCCTGGCCACAGCATCCCTTAGGCCAAGCTGACCCC  
 TCACTGGCCCTTACATCATCGACCTCCCCAGCTGGACTCAGTTTCGCCAGAACACTGGCACCATGAGGT  
 CTGTGCGCAGACACCTGTTCTCACAGAATTCTGCCCCAGGCCAGGGCATCGTCTGGGAGTGGCTGGGCGA  
 TGACGGATCCTGGGTAGCCTATGAAGCTAGAATCTGTGACTATCTGGAACAGCAAGTGGCCCGGGGCATC  
 CAGGTCGTGGACTTGGCACCCTGGGGTATAACTATACTGTCAACTATGCCACCCTAACCCAAACCAACA  
 AGACTTCCAGCTTCTGCCGGAGTGTGCGACGCCAAGTGGGGCCAGTTTACCCAGTGACTTCAGACATCGC  
 GTTTCACGCCAAATGGGACTTATCTGCTTTTGGCAACAGTGCCTCCATGGTAGCGGAACGGCCCTGTG  
 TCGGGCCGCTACCGCCACTCCATGACCAACCTGCCTGCATATCCTGCCCCCAAGCACCCACCGGACCA  
 CCACTGTCTCTGGGGCCACCAGGCCTTTGCCCATACAATAAACCTTCACTGTCTGGGGCCAGATCTGC  
 ACCAAGTTGAACACCACCAACCCTGGGCTGCAGCACCTCCTGTTGCAGGCAACCAGTCCCTGTTCCAC  
 TCCAGCCTCTCCACCTGGGGCCTCAGCTCCTGCCCTCAGGACCGTCCACCTCCAGTGGAGCCAGTGCCT  
 CCTTCCCAGCGGGCCCTCCTCCAGCAGCCAGGGAGCGCCCCACCCTGTGCCGTGCAGATGCCAAA  
 GGCCAGCAGGGTCCAGCAGGCGCTTGCAGGCATGACGAGTGTGCTGTGAGCCATTGGACTCCCTGTGTGT  
 CTTAGCCGTGACCCCGGCCACCGCCCTCCCGCTCCCGTCCGGCCTCTAAAAGTACAGCTCAGTTA  
 AGAGCTGAGGAAAATGTCCGTAAGAGGGGCGCCTAAGCCCGAGCCGGAGCAGGTGATCAGAAAGTACAC  
 CGAGGAGCTGAAAGTGGCCCTGAAGAGGACTGCATTATCTGTATGGAGAACTGGCTGTGGCTTCTGGG  
 TACAGTGACATGACTGACAGCAAGGCCCTCGGGCCATGGTCTGGGCGCCCTACCAAGTGCAGCCATG  
 CCTTCCACCTGTGTGCCTGCTGGCCATGTATTGCAACGGGAACAAGGACGGGAGTCTTCACTGTCCGTC  
 GTGCAAAACCATCTATGGGGAGAAGACTGGGACGACGCCCTGGGGGAAGATGGAGGTGTTCAAGTCCAA  
 ATGTCCCTCCCAGGCCATGAAGACTGTGGGACTATACTCATTGTTTACAACATCCCTCATGGCATCCAGG  
 GACCAGACACCCAGCCCTGGGAAGCCATTCACTGCCCGGGGCTTCCCAGCAATGCTACCTGCCAGA  
 TAGCCCTCAGGGCCGAAGTCTGAGGCTCCTGAAGGTGGCCTGGAAGAGGCGACTCATTTTTACCGTG  
 GCACTTCCAGCACCACAGGTGAGACCGACACCGTGGTGTGGAACGAGATCCACCACAAGACCGAGATGG  
 ACCGCAACGTGACAGGCCACGGCTATCCGGACCCAACTACCTGCAGAATGTGCTGGCTGAGCTCGCTGC  
 CCAGGGAGTGACCGAAGACTGCCTGGAACAGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR218205 representing NM\_023742  
 Red=Cloning site Green=Tags(s)

MAMAPSSSLPQVYPSHVVVAVWEWQDGLGIWHPYSATVCSFIEQHFVRRQGHFGLGSLAHSIPLGQADP  
 SLAPYIIDLPSWTQFRQNTGTMRSVRRHLFSQNSAPGQGIWVWELGDDGSWVAYEARICDYLEQQVARGI  
 QVVDLAPLGYNYTVNYATLTQTNKTSFCSRVRQVGPVYPTSDIAVPRQMLICFCQQCLHSGTGPV  
 SGRYRHSMTNLPAYPAPQAPHRTTTVSGAHQAFAPYNKPSLSGARSAPRLNNTNPWAAAPPVAGNQLFH  
 SSLSHLGPQLLPSGPSTSSGASAFSPGSSSSPGSAPTTVPVQMPKASRVQQALAGMTSVLSAIGLPVC  
 LSRAPRPTGPPASRPASKSHSSVKRLRKMSVKGAPKPEPEQVIRKYTEELKVAPEEDCIIICMEKLAVASG  
 YSDMTDSKALGPMVVGRLTKCSHAFHLLCLLAMYCNNGKDGSLQPCSKTIYGEKGTQPWGKMEVFRFQ  
 MSLPGHEDCGTILIVYNIIPHGIQGEHPSPGKPFRTARGFPRQCYLPDSPQGRKVLLELLKVAWKRRILFTV  
 GTSSTTGETDTVVWNEIHHKTEMDRNVTHGYPDPNYLQNVLAELAAQGVTEDCLEQQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9079\\_c07.zip](https://cdn.origene.com/chromatograms/mm9079_c07.zip)  
 Restriction Sites: SgfI-MluI  
 Cloning Scheme:



ACCN: NM\_023742

ORF Size: 1854 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.

RefSeq: [NM\\_023742.2](#), [NP\\_076231.1](#)

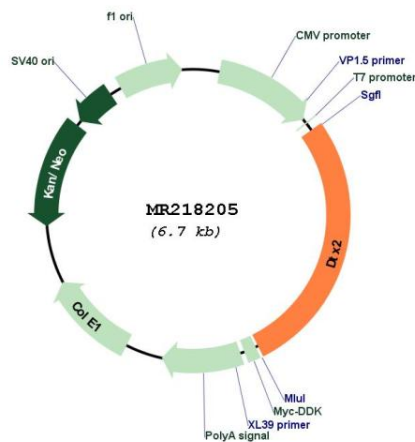
RefSeq Size: 2656 bp

RefSeq ORF: 1857 bp

**Locus ID:** 74198  
**UniProt ID:** [Q8R3P2](#)  
**Cytogenetics:** 5 G2  
**MW:** 67.1 kDa

**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]

### Product images:



Circular map for MR218205