

## Product datasheet for **MG218205**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dtx2 (NM_023742) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dtx2
Synonyms:	2610524D08Rik; AA408415; AU022494; Deltex2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG218205 representing NM\_023742  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCATGGCCCAAGCTCGTCTCTGCCGAGGTGTACCCTAGCCACGTGGTGGTGTGTGGGAAT  
 GGCAGGATGGGCTTGGCATTGGCACCCCTACAGTGCCACTGTCTGCTCCTTCATTGAGCAGCATTGT  
 CCGGCAGAGGGCCAGCATTGGACTGGGAAGCCTGGCCACAGCATCCCTTAGGCCAAGCTGACCCC  
 TCACTGGCCCTTACATCATCGACCTCCCCAGCTGGACTCAGTTTCGCCAGAACACTGGCACCATGAGGT  
 CTGTGCGCAGACACTGTCTCACAGAATTCTGCCCCAGGCCAGGGCATCGTCTGGGAGTGGCTGGGCGA  
 TGACGGATCCTGGGTAGCCTATGAAGCTAGAATCTGTGACTATCTGGAACAGCAAGTGGCCCGGGGCATC  
 CAGGTCGTGGACTTGGCACCCTGGGGTATAACTATACTGTCAACTATGCCACCCTAACCCAAACCAACA  
 AGACTTCCAGCTTCTGCCGGAGTGTGCGACGCCAAGTGGGGCCAGTTTACCCAGTGACTTCAGACATCGC  
 GTTCCACGCCAAATGGGACTTATCTGCTTTTGGCAACAGTGCCTCCATGGTAGCGGAACGGCCCTGTG  
 TCGGGCCGCTACCGCCACTCCATGACCAACCTGCCTGCATATCCTGCCCCCAAGCACCCACCGGACCA  
 CCACTGTCTCTGGGGCCACCAGGCCTTTGCCCATACAATAAACCTTCACTGTCTGGGGCCAGATCTGC  
 ACCAAGTTGAACACCACCAACCCTGGGCTGCAGCACCTCCTGTTGCAGGCAACCAGTCCCTGTTCCAC  
 TCCAGCCTCTCCACCTGGGGCCTCAGCTCCTGCCCTCAGGACCGTCCACCTCCAGTGGAGCCAGTGCC  
 CCTTCCCAGCGGGCCCTCCTCCAGCAGCCAGGGAGCGCCCCACCCTGTGCCGTGCAGATGCCAAA  
 GGCCAGCAGGGTCCAGCAGGCGCTTGCAGGCATGACGAGTGTGCTGTGAGCCATTGGACTCCCTGTGTGT  
 CTTAGCCGTGACCCCGGCCACCGCCCTCCCGCTCCCGCTTAAAGTACAGCTCAGTTA  
 AGAGGCTGAGAAAATGTCGGTAAAAGGGCGCCTAAGCCCGAGCCGGAGCAGGTGATCAGAAAGTACAC  
 CGAGGAGCTGAAAGTGGCCCTGAAGAGGACTGCATTATCTGTATGGAGAACTGGCTGTGGCTTCTGGG  
 TACAGTGACATGACTGACAGCAAGGCCCTCGGGCCATGGTCTGGGGCCGCTCACCAAGTGCAGCCATG  
 CCTTCCACCTGTGTGCCTGTGGCCATGTATTGCAACGGGAACAAGGACGGGAGTCTTCACTGTCCGTC  
 GTGCAAAACCATCTATGGGGAGAAGACTGGGACGACGCCCTGGGGGAAGATGGAGGTGTTCAAGTCCAA  
 ATGTCCCTCCCAGGCCATGAAGACTGTGGGACTATACTCATTGTTTACAACATCCCTCATGGCATCCAGG  
 GACCAGACACCCAGCCCTGGGAAGCCATTCACTGCCCGGGGCTTCCCAGCAATGCTACCTGCCAGA  
 TAGCCCTCAGGGCCGAAGTCTGAGGCTCCTGAAGGTGGCTGGAAGAGGCGACTCATTTTTACCGTG  
 GCACTTCCAGCACACAGGTGAGACCGACACCGTGGTGTGGAACGAGATCCACCACAAGACCGAGATGG  
 ACCGCAACGTGACAGGCCACGGCTATCCGGACCCCAACTACCTGCAGAATGTGCTGGCTGAGCTCGCTGC  
 CCAGGGAGTGACCGAAGACTGCCTGGAACAGCAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG218205 representing NM\_023742  
 Red=Cloning site Green=Tags(s)

MAMAPSSSLPQVYPSHVVVAVWEWQDGLGIWHPYSATVCSFIEQHFVRRQGHFGLGSLAHSIPLGQADP  
 SLAPYIIDLPSWTQFRQNTGMTSVRRHLFSQNSAPGQGIWWEWLGDDGSWVAYEARICDYLEQQVARGI  
 QVVDLAPLGYNVYVNYATLTQTNKTSFRCRSVRRQVGPVYVPTSDIAVPRQMGLICFCQQCLHSGTGPV  
 SGRYRHSMTNLPAYPAPQAPHRTTTSVGAHQAFAPYKNKPSLSGARSAPRLNNTNPWAAAPPVAGNQLFH  
 SSLSHLGPQLLPSGPSTSSGASAFSPGSSSSPGSAPTTVPVQMPKASRVQQALAGMTSVLSAIGLPVC  
 LSRAPRPTGPPASRPASKSHSSVKRLRKMSVKGAPKPEPEQVIRKYTEELKVAPEEDCIICMEKLAVASG  
 YSDMTDSKALGPMVVGRLTKCSHAFHLLCLLAMYCNGNKDGSLLQPCSKTIYGEKGTGQPWGKMEVFRFQ  
 MSLPGHEDCGTILIVYNIPIHGIQGPHEPSPGKPFRTARGFPQCYLPDPSQGRKVLLELLKVAWKRRLLFTV  
 GTSSTTGETDVTVVWNEIHHKTEMDRNVTHGYPDPNYLQNVLAELAAQGVTEDCLEQQ

**TRTRPLE** - GFP Tag - V

**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: 2562 bp

RefSeq ORF: 1857 bp

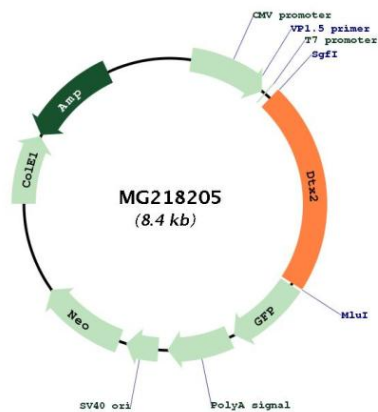
Locus ID: 74198

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]

**Product images:**



Circular map for MG218205