

Product datasheet for **MR205461**

Dtx2 (BC024925) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dtx2 (BC024925) 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)
ORF Nucleotide Sequence: >MR205461 representing BC024925
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCATGGCCCAAGCTCGTCTCTGCCGAGGTGTACCCTAGCCACGTGGTGGTGGCTGTGTGGGAAT
 GGCAGGATGGGCTTGGCATTGGCACCCCTACAGTGCCACTGTCTGCTCCTTCATTGAGCAGCATTTTGT
 CCGGCAGAGGGCCAGCATTTTGGACTGGGAAGCCTGGCCACAGCATCCCCTTAGGCCAAGCTGACCCC
 TCACTGGCCCCTTACATCATCGACCTCCCAGCTGGACTCAGTTTCGCCAGAACACTGGCACCATGAGGT
 CTGTGCGCAGACACTGTTCTCACAGAATTCTGCCCCAGGCCAGGCATCGTCTGGGAGTGGCTGGGCGA
 TGACGGATCCTGGGTAGCCTATGAAGCTAGAATCTGTGACTATCTGGAACAGCAAGTGGCCCGGGGCATC
 CAGGTCGTGGACTTGGCACCCTGGGGTATAACTATACTGTCAACTATGCCACCCTAACCCAAACCAACA
 AGACTTCCAGCTTCTGCCGGAGTGTGCGACGCCAAGTGGGGCCAGTTTACCCAGTGACTTCAGACATCGC
 TGTTCCACGCCAATGGGACTTATCTGCTTTTGGCAACAGTGCCTCCATGGTAGCGGAAGTGGCCCTGTG
 TCGGGCCGCTACCGCCACTCCATGACCAACCTGCCTGCATATCCTGCCCCCAAGCACCCACCGGACCA
 CCACTGTCTCTGGGGCCACCAGGCCTTGGCCCATACAATAAACCTTCACTGTCTGGGGCCAGACTGTC
 ACCAAGTTGAACACCACCAACCCCTGGGCTGCAGCACCTCCTGTTGCAGGAACCAAGTCCCTGTTCCAC
 TCCAGCCTCTCCACCTGGGGCCTCAGTCTTCCCTCAGGACCGTCCACCTCCAGTGGAGCCAGTGCCT
 CCTTCCCAGCGGCCCTCCTCCAGCAGCCCAGGGAGCGCCCCACCCTGTGCCCGTGCAGATGCCAAA
 GGCCAGCAGGGTCCAGCAGGCGCTTGCAGGTGAAGACAGAAGAGTGTACTGGCTCTTGGTCTTTACAGT
 GGATATAGGGAATTAGACAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205461 representing BC024925
 Red=Cloning site Green=Tags(s)

MAMAPSSSLPQVYP SHVVAVWEWQDGLGIWHPYSATVCSFIEQH FVVRGQHFGLGSLAHSIPLGQADP
 SLAPYIIDLPSWTQFRQNTGTMRSVRRHLFSQNSAPGQGI VVWELGDDGSWVAYEARICDYLEQQVARGI
 QVVDLAPLGYNYTVNYATLTQTNKTSSFCSRVRQVGPVYPVTS DIAVPRQMG LICFCQQCLHGSGTG PV
 SGRYRHSMTNLPAYPAPQAPHRTT TVSGAHQAFAPY NKPSLSGARSAPRLNTTNPWAAAPPVAGNQSLFH
 SSLSHLGPQLLPSGPSTSSGASAFSPSGPSSSSPGSAPTTVPVQMPKASRVQQALAGEDRRVYWLLVLYS
 GYRELDN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC024925

ORF Size: 1071 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: [BC024925.1](#)

RefSeq Size: 2675 bp

RefSeq ORF: 1073 bp

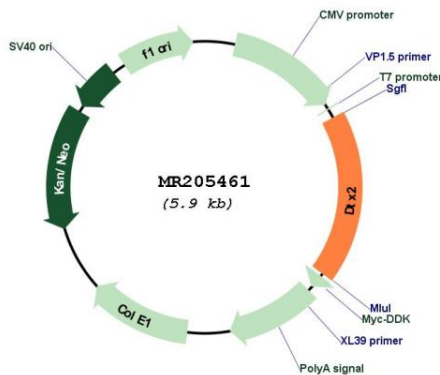
Locus ID: 74198

Cytogenetics: 5 G2

MW: 98 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 MR205461