

Product datasheet for **MR230553**

Dtx2 (NM_001256097) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dtx2 (NM_001256097) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR230553 representing NM_001256097
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCATGGCCCAAGCTCGTCTCTGCCGAGGTGTACCCTAGCCACGTGGTGGTGTGTGGGAAT
 GGCAGGATGGGCTTGGCATTGGCACCCCTACAGTGCCACTGTCTGCTCCTTCATTGAGCAGCATTTTGT
 CCGGCAGAGGGGCCAGCATTTTGGACTGGGAAGCCTGGCCACAGCATCCCTTAGGCCAAGCTGACCCC
 TCACTGGCCCTTACATCATCGACCTCCCCAGCTGGACTCAGTTTCGCCAGAACACTGGCACCATGAGGT
 CTGTGCGCAGACACTGTTCTCACAGAATTCTGCCCCAGGCCAGGGCATCGTCTGGGAGTGGCTGGGCGA
 TGACGGATCCTGGGTAGCCTATGAAGCTAGAATCTGTGACTATCTGGAACAGCAAGTGGCCCGGGGCATC
 CAGGTCGTGGACTTGGCACCCTGGGGTATAACTATACTGTCAACTATGCCACCTAACCCAAACCAACA
 AGACTTCCAGCTTCTGCCGGAGTGTGCGACGCCAAGTGGGGCCAGTTTACCCAGTGACTTCAGACATCGC
 GTTCCACGCCAAATGGGACTTATCTGCTTTTGGCAACAGTGCCTCCATGGTAGCGGAACGGCCCTGTG
 TCGGGCCGCTACCGCCACTCCATGACCAACCTGCCTGCATATCCTGCCCCCAAGCACCCACCGGACCA
 CCACTGTCTCTGGGGCCACCAGGCCTTTGCCCATACAATAAACCTTCACTGTCTGGGGCCAGATCTGC
 ACCAAGTTGAACACCACCAACCCTGGGCTGCAGCACCTCCTGTTGCAGGCAACCAGTCCCTGTTCCAC
 TCCAGCCTCTCCACCTGGGGCCTCAGCTCCTGCCCTCAGGACCGTCCACCTCCAGTGGAGCCAGTGCCCT
 CTTCCCCAGCGGGCCCTCCTCCAGCAGCCAGGGAGCGCCCCACCCTGTGCCGTGCAGATGCCAAA
 GGCCAGCAGGGTCCAGCAGGCGCTTGCAGAAGGGCGCCTAAGCCCGAGCCGGAGCAGGTGATCAGAAAG
 TACCCGAGGAGTCAAAGTGGCCCTGAAGAGGACTGCATTATCTGTATGGAGAACTGGCTGTGGCT
 CTGGGTACAGTGACATGACTGACAGCAAGGCCCTCGGGCCATGGTCTGGGGCCGCTACCAAGTGCAG
 CCATGCCTTCCACCTGCTGTGCCTGCTGGCCATGTATTGCAACGGGAACAAGGACGGGAGTCTTCAGTGT
 CCGTCTGCAAAAACCATCTATGGGGAGAAGACTGGGACGACGCCCTGGGGGAAGATGGAGGTGTTACGT
 TCCAAATGTCCCTCCCAGGCCATGAAGACTGTGGGACTATACTCATTGTTTACAACATCCCTCATGGCAT
 CCAGGGACCAGAGCACCCAGCCCTGGGAAGCCATTCAGTGCCCGGGGCTTTCCCGGCAATGCTACCTG
 CCAGATAGCCCTCAGGGCCGCAAGGTCTGGAGCTCCTGAAGGTGGCTGGAAGAGGCGACTCATTTTTTA
 CCGTGGGCACTCCAGCACACAGGTGAGACCGACACCGTGGTGTGGAACGAGATCCACCACAAGACCGA
 GATGGACCGCAACGTGACAGGCCAGGCTATCCGGACCCCAACTACCTGCAGAATGTGCTGGCTGAGCTC
 GCTGCCAGGGAGTGACCGAAGACTGCCTGGAACAGCAG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230553 representing NM_001256097
 Red=Cloning site Green=Tags(s)

MAMAPSSSLPQVYPVSHVVAVWEWQDGLGIWHPYSATVCSFIEQHFRVQRGQHFGLGSLAHSIPLGQADP
 SLAPYIIDLPSWTQFRQNTGTMRSVRRHLFSQNSAPGQGIWVWELGDDGSWVAYEARICDYLEQQVARGI
 QVVDLAPLGYNYTVNYATLTQTNKTSFRCRSVRRQVGPVYPVTS DIAVPRQMG LICFQQCLHSGTGPV
 SGRYRHSMTNLPAYPAPQAPHRTTTTVSGAHQAFAPYNKPSLSGARSAPRLNNTNPWAAAPPVAGNQLFH
 SSLSHLGPQLLPSGPSTSSGASAFPSGSSSSPGSAPTTVPVQMPKASRVQALAEAPKPEPEQVIRK
 YTEELKVAPEEDCIICMEKLAVASGYSMDTDSKALGPMVVGRLTKCSHAFHLLCLLAMYCNGNKDGLQC
 PSCKTIYGEKTGTQPWGKMEVFRFQMSLPGHEDCGTILIVYNIPIHGIQGPHEHSPGKPFPTARGFPRQCYL
 PDSPQGRKVLLELLKVAWRRLIFTVGTSSTTGETDTVVWNEIHHKTEMDRNVTGHGYPDPNYLQNVLAEL
 AAQGVTEDCLEQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

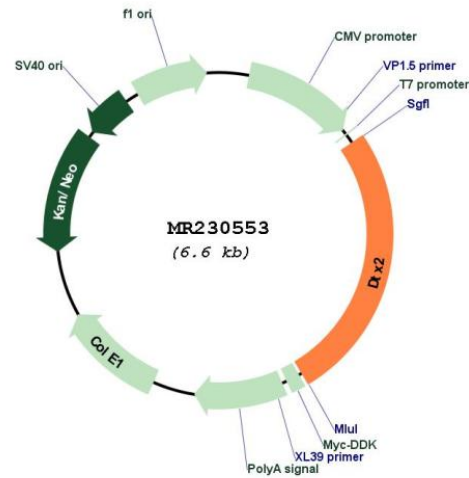
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001256097
 ORF Size: 1719 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:	<ol style="list-style-type: none">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
MW:	62.9 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]