

Product datasheet for **MR208731**

Dtx1 (BC053055) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dtx1 (BC053055) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dtx1
Synonyms:	Fxit1; mKIAA4160
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208731 representing BC053055
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATCAGTTCGGCAAGACACAGGTACCATGCGGCCGGTGCAGCACAATTCTACGATCCATCGTCGG
 CGCCGGCAAGGCATCGTGTGGGAATGGGAGAACGACGCGGGGCGTGGACGGCCTACGACATGGACAT
 CTGCATACCATCCAGAACCGGTACGAGAAGCAGCACCCGTGGCTCGACCTCTCATCGCTCGGCTTCTGC
 TACCTCATCTACTTCAACAGCATGTCCCAGATGAACCGCCAGACGCGCCGCCGCCCGCTGCGCCGTC
 GCCTGGACCTGGCTTACCCGCTCACTGTGCGCTCCATTCCAAGTCGCAATCCTGGCCCGTGGGAGCCAG
 CTCGGGTACGCCCTGCTCCTGTGACGAGTGCCTGCTGGTCAACAGCACGCGCGCCGCTCCAACGCCATC
 CTGGCCTCGCAGCGCCGAAGGCTCCATTGCGCCAGCCGCGCTCCAGCGCCCCCTCGCCCCCGCCG
 CGCTGCCACCCGGAGGACCTCCGGGTGCGCTCGTTGTGCGCCCCAGCGCCACTTTCGCCGGAGTGCCT
 CTGGGCCGCACCTGCCACCGGCCACGGAGCCTGCGCCGCTCCAGGAGTTCGCCAAGGAGCCCTAGT
 GCCCCAAACGGAGCGCCACACCGGGCCAAAACAACCTCAGTCGACCAGGACACAGAGGTCACACAGCG
 TCAGCGCACGCGCCTCTATCCCGCTGGGGTCCGGCGCTCCCGTGAAGAACTTGAATGGCACTGGCCC
 TGTCCACCAGCCTTGGCAGGGATGACCGGGATCCTGCTGTGTGACGCGGGGCTGCCGGTGTGCCTGACA
 CGAGCACCCAAACCCATCCTGCACCCACCAGTAAGCAAAAGCGACGTGAAGCCTGTGCCTGGAGTGC
 CCGGCGTGTGCCGAAGACCAAGAAGAAACACCTCAAGAAAAGCAAGAATCCTGAGGATGTGGTTCGGAG
 GTACATGCAGAAGGTGAAAAACCCGCTGATGAGGACTGTACATTTGCATGGAGCGGCTGGTACAGCA
 TCTGGCTATGAGGGCGTGTCCGAAACAAGAGTGTGCGGCCGAGCTTGTGGCCGCTGGGCCGCTGCG
 GCCAATGTATCACCTGCTCCTGCTGGTGGCCATGTAATCCAATGGCAACAAGGATGGCAGCCTGCAGT
 TCCAACCTGCAAAAGCCATCTACGGGAGAAGACAGGGACACAGCCACAGGGAAGATGGAGTTTACCTC
 ATCCCGCACTCGCTGCCTGGTTTTGCAGACACCCAGACGATCCGCATCGTCTATGACATCCCCACGGCA
 TCCAGGGCCTGAACATCCCAACCCAGGCAAGAAGTTCACAGCCAGAGGCTTCCCTCGCCACTGCTACCT
 ACCCAACAATGAGAAGGGCCGAAAGGTGCTGAGATTGCTCATCCCGCTGGGAACGCAGACTCATCTTC
 ACTATCGGAACATCCAACACCACGGGCGAGTCGGACACCGTGGTGTGGAACGAGATTACCACAAGACGG
 AGTTTGGTTCCAACCTCACTGGTACGGCTACCCGACGCCAGCTACCTAGACAACGTGCTGGCTGAGCT
 CACCGCCAGGGGTTTCTGAGGCCATGGCCAAGGCC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208731 representing BC053055
 Red=Cloning site Green=Tags(s)

MHQFRQDTGTMRPVRRNFYDPSSAPGKGIWVWENDGGAWTAYDMDICITIQNAYEKQHPWLDLSSLGFC
 YLIYFNMSQMNQRTRRRRLRRLLDLAYPLTVGSIPKSQSWPVGASSGQPCSCQQLLVNSTRASNAI
 LASQRRKAPIAPAAPPAPPPPPPLPPGGPPGALVVRPSATFAGAALWAPATGPTEPAPPVPPRSPS
 APNGAPTPGQNNLSRPGPQRSTSVSARASIPPGVPALPVKNLNGTGPVHPALAGMTGILLCAAGLPVCLT
 RAPKPIIHPPVSKSDVKPVPGVPGVCRKTKKKHLKSKNPEDVRRYMQVKNPPDEDCTICMERLVTA
 SGYEGVLRNKSVRPELVGRLGRCGHMYHLLCLVAMYSNGNKDGSLLQCPTCKAIYGEKGTQPPGKMEFHL
 IPHSLPGFADTQIRIVYDIPTGIQGEHPNPGKFTARGFPRHCYLPNNEKGRKVLRLITAWERRLIF
 TIGTSNTTGESDTEVWNEIHHKTEFGSNLTGHGYPDASYLDNVLAEFTAQGVSEAMAKA

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9043_c05.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: BC053055

ORF Size: 1647 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: [BC053055.1](#)

RefSeq Size: 2882 bp

RefSeq ORF: 1649 bp

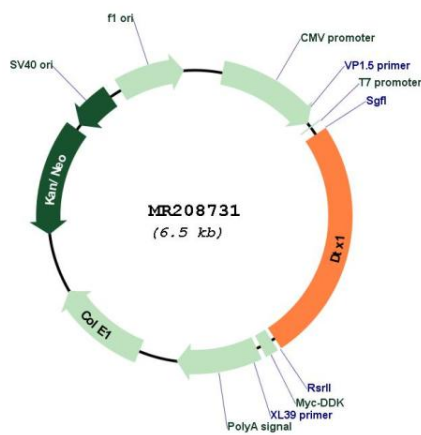
Locus ID: 14357

Cytogenetics: 5 60.64 cM

MW: 105.6 kDa

Gene Summary: Regulator of Notch signaling, a signaling pathway involved in cell-cell communications that regulates a broad spectrum of cell-fate determinations. Mainly acts as a positive regulator of Notch, but it also acts as a negative regulator, depending on the developmental and cell context. Mediates the antineural activity of Notch, possibly by inhibiting the transcriptional activation mediated by MATCH1. Involved in neurogenesis, lymphogenesis and myogenesis, and may also be involved in MZB (Marginal zone B) cell differentiation. Promotes B-cell development at the expense of T-cell development, suggesting that it can antagonize NOTCH1. Functions as an ubiquitin ligase protein in vivo, mediating ubiquitination and promoting degradation of MEKK1, suggesting that it may regulate the Notch pathway via some ubiquitin ligase activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208731