

Product datasheet for **MC219798**

Dtx1 (NM_008052) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dtx1 (NM_008052) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dtx1
Synonyms:	Fxit1; mKIAA4160
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219798 representing NM_008052
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCACGGCCAGGCCAAGGTGTGATGGTGCCGGTGAACGGGCTGGGCTTCCCGCCGAGAACGTGGCCA
 GGGTGGTGGTGTGGGAGTGGCTCAATGAGCACAGCCGCTGGCGACCCTACACGGCCACCGTGTGCCACCA
 CATCGAGAATGTTCTTAAGGAGGATGCCCGGGGCTCTGTGGTCCTTGGCCAGGTGGACGCCAGCTGGTG
 CCCTACATCATCGACCTACAATCCATGCATCAGTTCGGCAAGACACAGGTACCATGCGGCCGGTGGCAG
 GCAACTTCTACGATCCATCGTCGGCGCCGGCAAGGGCATCGTGTGGGAATGGGAGAACGACGGCGGGG
 GTGGACGGCTACGACATGGACATCTGCATCACCATCCAGAACCGGTACGAGAAGCAGCACCCGTGGCTC
 GACCTCTCATCGCTCGGCTTCTGCTACCTCATCTACTCAACAGCATGTCCAGATGAACGCCAGACGC
 GCCGCCCGCCGCTGCGCCGTGCGCTGGACCTGGCTTACCCGCTCACTGTGGCTCCATTCCCAAGTC
 GCAATCTGGCCCGTGGGAGCCAGCTCGGGTCAGCCCTGCTCCTGTGAGCAGTGCCTGCTGGTCAACAGC
 ACGCGCCCGCCCTCCAACGCCATCCTGGCCTCGCAGCGCCGCAAGGCTCCATTGCGCCAGCCGCGCCCTC
 CAGCGCCCCCTCCGCCCCCGCCCGCCGCTGCCACCCGGAGGACCTCCGGGTGCGCTCGTTGTGCGCCCCAG
 CGCCACTTTCCGCCGAGCTGCGCTCTGGGCCGCACCTGCCACCCGGCCCCACGGAGCTGCGCCGCTCCA
 GGAGTTCACCAAGGAGCCCTAGTGCCCAACGGAGCGCCACACCCGGCCAAAACAACCTCAGTCGAC
 CAGGACCACAGAGGTCCACCAGCGTCAGCGCACGCGCTCTATCCCGCTGGGGTTCGGCGCTCCCCGT
 GAAGAACTTGAATGGCACTGGCCCTGTCCACCCAGCCTTGGCAGGGATGACCGGGATCCTGCTGTGTGCA
 GCGGGGTGCCGGTGTGCTGACACGAGCACCCAAACCCATCCTGCACCCACCACAGTAAGCAAAAGCG
 ACGTGAAGCCTGTGCTGGAGTGCCCGGCTGTGCCGAAGACCAAGAAGAAACACCTCAAGAAAAGCAA
 GAATCCTGAGGATGTGGTTCGGAGGTACATGCAGAAGGTGAAAAACCCGCTGATGAGGACTGTACCATT
 TGCATGGAGCGGCTGGTACAGCATCTGGCTATGAGGGCGTGCTCCGAAACAAGAGTGTGCGGCCGAGC
 TTGTGGGCCGCTGGGCCGCTGCGGCCACATGTATCACCTGCTCTGCCTGGTGGCCATGTACTCCAATGG
 CAACAAGGATGGCAGCTGCACTGTCCAACCTGCAAAGCCATCTACGGGAGAAGACAGGGACACAGCCA
 CCAGGGAAGATGGAGTTTCACTCATCCCGCACTCGCTGCCTGGTTTTGCAGACACCCAGACGATCCGCA
 TCGTCTATGACATCCCCACGGGCATCCAGGGCCCTGAACATCCCAACCCAGGCAAGAAGTTCACAGCCAG
 AGGCTTCCTCGCCACTGCTACCTACCAACAATGAGAAGGGCCGAAAGGTGCTGAGATTGCTCATCACC
 GCCTGGGAACGCAGACTCATCTTCACTATCGGAACATCCAACACCACGGCGAGTCGGACACCGTGGTGT
 GGAACGAGATTACCACAAGACGGAGTTTGGTTCCAACCTCACTGGTCACGGCTACCCCGACGCCAGCTA
 CCTAGACAACGTGCTGGCTGAGCTACCCGCCAGGGGGTTTTCTGAGGCCATGGCCAAGGCC**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_008052
- Insert Size:** 1884 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_008052.3](#), [NP_032078.2](#)

RefSeq Size: 3715 bp

RefSeq ORF: 1884 bp

Locus ID: 14357

UniProt ID: [Q61010](#)

Cytogenetics: 5 60.64 cM

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]