

## Product datasheet for **MC218169**

### **Dtx1 (BC053055) Mouse Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >BC053055  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCATCAGTTCGGCAAGACACAGGTACCATGCGGCCGGTGCAGCACAATTCTACGATCCATCGTCGG  
 CGCCGGGCAAGGCATCGTGTGGGAATGGGAGAACGACGCGGGGCGTGGACGGCTACGACATGGACAT  
 CTGCATACCATCCAGAACGCGTACGAGAAGCAGCACCCGTGGCTCGACCTCTCATCGCTCGGCTTCTGC  
 TACCTCATCTACTTCAACAGCATGTCCCAGATGAACCGCCAGACGCGCCGCCGCCCGCTGCGCCGTC  
 GCCTGGACCTGGCTTACCCGCTCACTGTGCGCTCCATTCCAAGTCGCAATCCTGGCCCGTGGGAGCCAG  
 CTCGGGTAGCCCTGCTCCTGTGAGCAGTGCCTGCTGGTCAACAGCACGCGCGCCGCTCCAACGCCATC  
 CTGGCCTCGCAGCGCCGAAGGCTCCATTGCGCCAGCCGCGCTCCAGCGCCCCCTCGCCCCCGCCG  
 CGCTGCCACCCGGAGGACCTCCGGGTGCGCTCGTTGTGCGCCCCAGCGCCACTTTCGCCGGAGTGCCT  
 CTGGGCCGACCTGCCACCGGCCACGGAGCCTGCGCCGCTCCAGGAGTTCGCCAAGGAGCCCTAGT  
 GCCCCCAACGGAGCGCCACACCGGGCCAAAACAACCTCAGTCGACCAGGACCACAGAGGTCACCCAGCG  
 TCAGCGCACGCGCCTCTATCCCGCTGGGGTCCGGCGCTCCCGTGAAGAACTTGAATGGCACTGGCCC  
 TGTCCACCCAGCCTTGGCAGGGATGACCGGGATCCTGCTGTGTGACGCGGGGCTGCCGGTGTGCCTGACA  
 CGAGCACCCAAACCCATCCTGCACCCACCAGTAAGCAAAAGCGACGTGAAGCCTGTGCTGGAGTGC  
 CCGGCGTGTGCCGAAGCAAGAAGAAACACCTCAAGAAAAGCAAGAATCCTGAGGATGTGGTTCGGAG  
 GTACATGCAGAAGGTGAAAAACCCGCTGATGAGGACTGTACCATTTGCATGGAGCGGCTGGTACAGCA  
 TCTGGCTATGAGGGCGTGTCCGAAACAAGAGTGTGCGGCCGAGCTTGTGGCCGCTGGGCCGCTGCG  
 GCCACATGTATCACCTGCTCGCTGGTGGCCATGTAATCCAATGGCAACAAGGATGGCAGCCTGCAGTG  
 TCCAACCTGCAAAGCCATCTACGGGGAGAAGACAGGGACACAGCCACCAGGGAAGATGGAGTTTCACCTC  
 ATCCCGCACTCGCTGCCTGGTTTTGACAGACACCCAGACGATCCGCATCGTCTATGACATCCCCACGGCA  
 TCCAGGGCCCTGAACATCCCAACCCAGGCAAGAAGTTCACAGCCAGAGGCTTCCCTCGCCACTGCTACCT  
 ACCCAACAATGAGAAGGGCCGAAAGGTGCTGAGATTGCTCATCCCGCTGGAAACGAGACTCATCTTC  
 ACTATCGGAACATCCAACACCACGGGCGAGTCGGACACCGTGGTGTGGAACGAGATTACCACAAGACGG  
 AGTTTGGTTCCAACCTCACTGGTACGGCTACCCGACGCCAGCTACCTAGACAACGTGCTGGCTGAGCT  
 CACCGCCAGGGGTTTCTGAGGCCATGGCCAAGGCCTGA

AG**CGGACCG**ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATA  
 TCCTGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-RsrII

**ACCN:** BC053055

**Insert Size:** 1650 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:** [BC053055](#), [AAH53055](#)

**RefSeq Size:** 2882 bp

**RefSeq ORF:** 1649 bp

**Locus ID:** 14357

**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]