

Product datasheet for **MR209443**

Dtx4 (NM_172442) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dtx4 (NM_172442) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dtx4
Synonyms:	A1449438; BC044798; D930042H13; RNF155
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209443 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTCCTGGCCTCGGCAGTGGTGGTGTGGGAATGGCTGAACGAACACGGCCGCTGGCGTCCCTACAGCC
 CAGCCGTGAGTACCACATCGAGGCGGTGGTGCAGCTGGTCCCCGCGCCGGGGCAGCGTGGTGTGGG
 CCAGGTGGACAGCCGGCTCGCGCCCTACATCATCGACCTGCAGTCCATGAACCAGTTCGCCAAGACACG
 GGGACCTCCGCCAGTTCGACGAACTACTATGACCCATCCTCAGCCCTGGTAAGGGAGTCGTGTGGG
 AATGGGAGAATGACAATGGTTCCTGGACTCCCTATGACATGGAAGTCGGCATCACCATCCAGTATGCCTA
 TGAGAAGCAGCACCCATGGATCGACCTCACCTCCATTGGCTTCAGCTACATAATAGACTTCAGCACCATG
 GGCCAGATCAACAGGCAGACCCAAGCCAGCGCCGTGTCAGACGACGACTAGACCTCATCTACCCCATGG
 TCACGGGCACTATGCCAAGACTCAGTCTGGCCAGTCAGTCTGGACCGGCAGCTCCTCCCTGCACC
 ACCTTGCTCCTGTCCACAGTGTGTTTTGGTGTGAGCGTCAAGGCTGCTGTGGTCCATGGGGGACTGGG
 CCTCCAGCAGTACGAAAGAACATGGCCCTCTCTGGAGTGGCAAGCTGCCCCAGCCACCTGGCCCTGGAG
 CAAAGCCACTAGACACCACTGGCACCATTTCGAGGCCAGGGAAGACAGCCCCATCGCAGGTTATCAGAAG
 ACAAGTCTCTAATGCACCAGCTGGGGGACTGTAGGCTCCCTACCAGCCACAAGGAAGCAACAGGAAG
 ACTGGAAGGGTGGCACTGGCCACTTTGAATCGGTCCAATCTGCAGCGACTGGCCATTGCCAGTCCCGGG
 TGCTGATTGCCTCCGGGTTCCCACTGTGCCTGTGAAAACTTGAATGGGTCCAGCCCTGTTAATCCTGC
 CTTGGCAGGAATACCCGGATACTCATGAGTGCAGCGGATTGCCTGTGTGCCTCACTCGCCACCAAAG
 CTGGTCTCCACCGCCCTGTGAGCAAGAGTGAATAAAGTCCATCCCAGGGTCTCGAACACGAGCC
 CGAAGACCACAAAAGCAAGCCAAGAAAGGTAAGAAACCCAGAGGAAGTGCTAAAGAAGTACCTGCAGAA
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 GGCCACAGCCTACAGTCAAGCCTGACCTGGTGGAAAGCTGTCCAGGTGTGGCCACATCTACCACATCT
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 TTATGGCGTCAAGACAGGCACCCAGCCTCCAGGGAAGTGAATACCACCTCATCCCCACTCCTTGCT
 GGCCATCCGGACTGCAAGACCATCCGGATCATCTACAGTATCCCCCTGGCATTGAGGGACCAGAGCATC
 CGAATCCTGGGAAGGCTTCAGTCCCGTGGCTTCCCACGACATTGTTACCTTCCAGACAGCGAGAAGGG
 GAGAAAAGTTCTGAAGCTGCTTCTAGTGGCCTGGGACCGCGTCTCATCTTTGCCATTGGAACCTCCAGC
 ACCACGGGCGAGTCCGATACTGTATCTGGAATGAGGTTACCACAAAACAGAATTTGGCTAATCTCA
 CTGGCCATGGCTACCCAGATGCCAATTACCTGGATAACGTGCTGGCTGAACTGGCTGCCAGGGTATCTC
 TGAAGACAGCACTTCCATGAAAAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

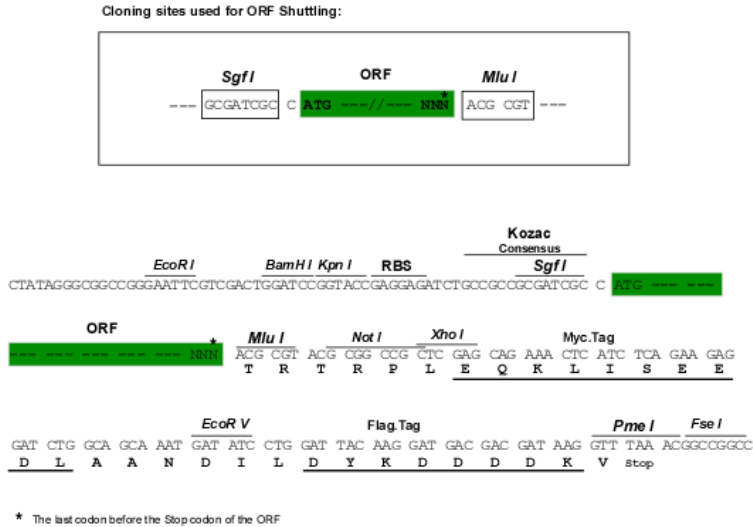
>MR209443 protein sequence
 Red=Cloning site Green=Tags(s)

MLLASAVVVWEWLNEHGRWRPYPSPAVSHHIEAVVRAGPRAGGSVVLQVDSRLAPYIIDLQSMNQFRQDT
 GTLRPVRNNYDPSAPGKGVVWENDNGSWTPYDMEVGITIQYAYEKQHPWIDLTSIGFSYIIDFSTM
 GQINRQTQRQRRVRRRLDIYPMVTGTMPTQSWPVSPGPATSSPAPPCSCPQCVLMSVKAADVHGGTG
 PPAVRKNMALSGVGKLPQPPGPGAKPLDTTGTIRGPGKTAPSQVIRRVSNAPAGATVGSPTSPQGSNRK
 TGRVALATLNRSNLQRLAIAQSRVLIASGVPTVPVKNLNGSSPVNPALAGITGILMSAAGLPVCLTRPPK
 LVLHPPPVSKSEIKSIPGVSNTSRKTTKKQAKKGTPEEVLKYLKQVRHPPEEDCTICMERLTAPSGYK
 GPQPTVKPDLVGKLSRCGHIYHIYCLVAMYNNGNKDGSLQCPTCKTIYGVKTGTQPPGKMEYHLIPHSLP
 GHPDCKTIRIIYSIPPGIQPEHPNPGKSFARGFPRHCYLPDSEKGRKVLKLLLVAVDRRLIFAIGTSS
 TTGESDVIWNEVHHKTEFGSNLTGHGYPDANYLDNVLAEAAQGISDSTSHKED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172442

ORF Size: 1851 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: [NM_172442.2](#), [NP_766030.2](#)

RefSeq Size: 5786 bp

RefSeq ORF: 1851 bp

Locus ID: 207521

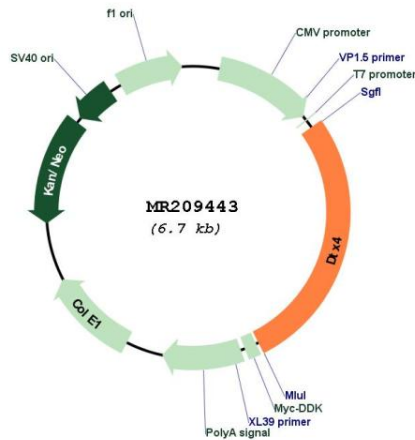
UniProt ID: [Q6PDK8](#)

Cytogenetics: 19 A

MW: 66.9 kDa

Gene Summary: Functions as a ubiquitin ligase protein in vivo, mediating 'Lys48'-linked polyubiquitination and promoting degradation of TBK1, targeting to TBK1 requires interaction with NLRP4 (By similarity). Regulator of Notch signaling, a signaling pathway involved in cell-cell communications that regulates a broad spectrum of cell-fate determinations. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209443