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Product datasheet for RC238652

DTX4 (NM_001300727) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DTX4 (NM_001300727) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DTX4
Synonyms:	RNF155
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RC238652 representing NM_001300727
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGTGGGCATCACCATCCAGCATGCCTATGAGAAGCAGCACCCCTGGATCGACCTCACTTCCATTG
GCTTTAGCTACGTAATTGACTTCAACACCATGGGCCAGATCAACCGTCAGACCCAGCGCCAACGCCGCGT
CCGCCGGCGCCTCGACCTCATCTACCCCATGGTCACAGGGACCTTGCCTAAGGCTCAGTCCTGGCCAGTC
AGCCCTGGGCCAGCCACCTCGCCCCCCATGTCCCCCTGCTCCTGTCCCCAGTGTGTCTTGGTGATGAGTG
TTAAGGCAGCCGTGGTCAATGGCAGCACTGGGCCCCTACAGCTGCCAGTGACCCGCAAGAACATGCCGCC
TCCTGGAGTGGTCAAGCTACCCCCACTGCCAGGCTCTGGGGCCAAGCCACTGGACAGCACAGGCACCATT
CGAGGCCCACTGAAGACCGCCCCATCGCAGGTGATCCGGAGACAAGCCTCCAGCATGCCCACTGGGACAA
CCATGGGCTCTCCTGCCAGTCCCCCAGGACCCAACAGCAAGACCGGAAGGGTGGCCCTGGCCACCTTGAA
TCGTACCAACCTGCAGCGACTGGCCATTGCCCAGTCCCGGGTGCTGATCGCCTCTGGGGTCCCCACAGTC
CCAGTGAAGAACCTAAATGGGTCCAGTCCTGTCAACCCTGCCTTGGCAGGAATCACTGGGATCCTCATGA
GTGCAGCGGGGCTGCCTGTGTGTCTCACCAGGCCACCAAAGCTGGTCCTACACCCACCCCCCGTCAGCAA
GAGTGAAATAAAATCCATCCCAGGGGTTTCCAACACAAGCCGCAAGACCACCAAAAAACAAGCCAAGAAA
GGTAAAACCCCAGAGGAAGTGCTAAAAAAATATCTACAGAAAGTCCGGCACCCACCAGATGAGGACTGCA
CCATCTGTATGGAACGCCTCACGGCCCCCTCAGGCTACAAGGGCCCGCAGCCTACGGTAAAACCTGACCT
GGTAGGGAAGCTGTCCAGATGCGGCCACGTCTACCACATCTACTGCTTGGTTGCCATGTACAACAATGGG
AACAAGGATGGAAGTTTGCAGTGTCCAACCTGCAAGACCATTTATGGGGTGAAGACAGGCACCCAACCTC
CAGGGAAGATGGAGTACCACCTCATCCCCCACTCCTTGCCTGGCCACCCAGACTGCAAAACCATCCGGAT
CATCTACAGCATCCCCCCCGGCATTCAGGGACCGGAACACCCGAATCCTGGGAAGAGTTTCAGCGCCCGA
GGCTTCCCACGACACTGTTACCTTCCGGACAGCGAGAAAGGGAGAAAAGTTCTGAAGCTGCTGCTCGTGG
CCTGGGATCGCCGCCTCATTTTTGCCATTGGCACCTCCAGCACCACAGGCGAGTCAGACACCGTCATCTG
GAATGAGGTCCACCACAAGACAGAGTTTGGCTCTAATCTCACTGGCCATGGCTACCCAGATGCCAATTAC
CTGGATAATGTGCTGGCTGAACTGGCTGCCCAGGGCATCTCTGAGGACAGCACTGCCCAGGAGAAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238652 representing NM_001300727
Red=Cloning site Green=Tags(s)

MEVGITIQHAYEKQHPWIDLTSIGFSYVIDFNTMGQINRQTQRQRRVRRRLDLIYPMVTGTLPKAQSWPV
SPGPATSPPMSPCSCPQCVLVMSVKAAVVNGSTGPLQLPVTRKNMPPPGVVKLPPLPGSGAKPLDSTGTI
RGPLKTAPSQVIRRQASSMPTGTTMGSPASPPGPNSKTGRVALATLNRTNLQRLAIAQSRVLIASGVPTV
PVKNLNGSSPVNPALAGITGILMSAAGLPVCLTRPPKLVLHPPPVSKSEIKSIPGVSNTSRKTTKKQAKK
GKTPEEVLKKYLQKVRHPPDEDCTICMERLTAPSGYKGPQPTVKPDLVGKLSRCGHVYHIYCLVAMYNNG
NKDGSLQCPTCKTIYGVKTGTQPPGKMEYHLIPHSLPGHPDCKTIRIIYSIPPGIQGPEHPNPGKSFSAR
GFPRHCYLPDSEKGRKVLKLLLVAWDRRLIFAIGTSSTTGESDTVIWNEVHHKTEFGSNLTGHGYPDANY
LDNVLAELAAQGISEDSTAQEKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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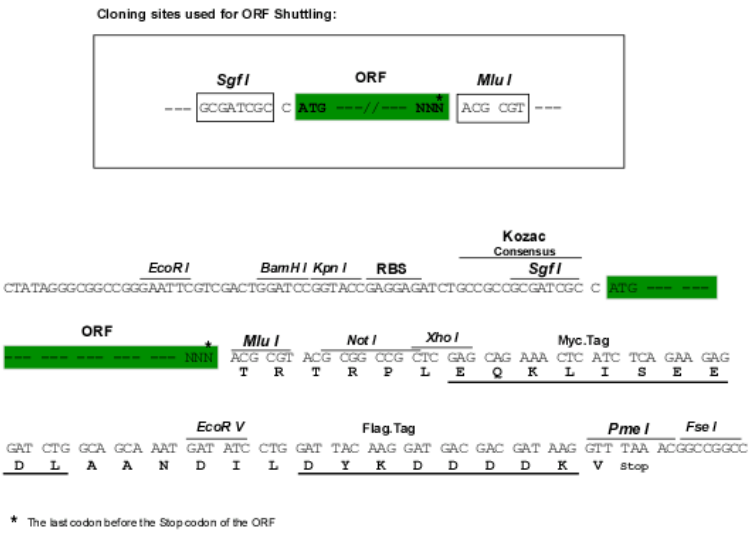
Cloning Scheme:



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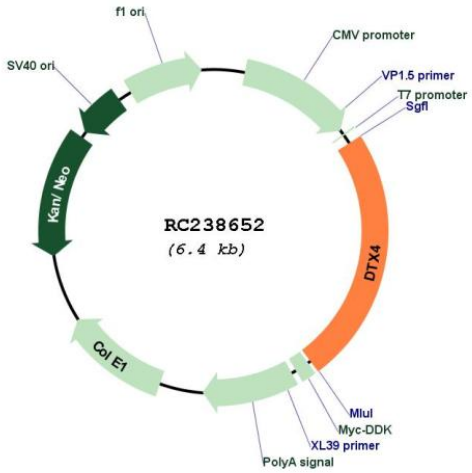
Plasmid Map:



ACCN:	NM_001300727
ORF Size:	1539 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).

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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_001300727.1, NP_001287656.1
RefSeq Size:	5386 bp
RefSeq ORF:	1542 bp
Locus ID:	23220
UniProt ID:	Q9Y2E6
Cytogenetics:	11q12.1
Protein Families:	Druggable Genome
Protein Pathways:	Notch signaling pathway
MW:	55.7 kDa
Gene Summary:	Regulator of Notch signaling, a signaling pathway involved in cell-cell communications that regulates a broad spectrum of cell-fate determinations (By similarity). Functions as a ubiquitin ligase protein in vivo, mediating 'Lys48'-linked polyubiquitination and promoting degradation of TBK1, targeting to TBK1 requires interaction with NLRP4.[UniProtKB/Swiss-Prot Function]

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