

Product datasheet for **MG210070**

Dtx3l (BC085093) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dtx3l (BC085093) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dtx3l
Synonyms:	AU042200; BC023741
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210070 representing BC085093
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTCCAGTCCCACCCGCGTCCCGCTACTCGTACGGCTGCGGGAGTCCATCCCCAAGGCGCACA
 GGAAGCTCGAGATATACTTCCAGAGCCGGCCTCGGGAGGTGGGAGTGCCTGTCCAGCCCGTGGGCC
 CAGCGCTCCGGACACCTACGAGGTGAAGTTCCTAAAAAAGCAGATAAGGAGAAAGTGTTGAAAAAGAGC
 GAACACGAGATGTTGGTCCATAACAACTGTGACCATTGTCTGGAACTACTAAAAAGCCAGTAGAGG
 ACCTGAGACCCAGACTCCCATCCTTGACACAGCCAGTGGAGACACCAAGCTCCAGACCTCCGTCCTTGAC
 GGGGTCTCTGGATGAAGCACTTTGTGATGACATACATCCCAGGACGGGCTCGTTTCTAACTCTGTTGAC
 TCAGTTGTCCAAAAGATCTTCTTGCTGTGACCGCTGAGCTGAACTGTGACCTGCTCTCTAAAGAGCAGA
 GAGCATCTATAACCACTGTCTGCCCTCACATCATAAAAGCATGGAGGGTAGTGATGGAATTAAGAAGGT
 GTGTGGCAACTTCAAAGATATTGAAAAGATACATCACTTCTTGAGTGAGCAGCTTTTGGAAACGGGAGCAG
 AAACGGAAGGGAAGCGAGCAGAAACGGAAGTGCGCCCCACAGAAACACACACCTCCCGATGTGGAGCGGG
 AGCCCCCTGATCAGAGCAGTATTCAAGTTCCTGTGCTTCTCCTTGAATATTTCAAGCATGTTAATCCGGG
 TAGACTAGAGTTCATAGAGTACAAATTTGGTGTAAACATTGAAATCCAAGCTAGTTCTCCCAATATGGTC
 ACTGTAGGCTTCCCTCCAGCCATTTGGCAACGTAGAAGAAGCAAGTCAGTCTTTGTCCAGAGACTTTC
 AGAAATGCTCGCAGTCTCTGAAGCAAGATTGTATCTCTTTAGAGGAGCACCAGAGAGCAAAGGAGGTGAG
 ACAGGAGCTGAGTCGCTGCTTCCCAAAGCTTTGATAAAGGGACAGGGAAGAAGCCTGACTCTCCTCGGC
 TCTCCTGCTGACATTTAGCCGCCACAGAAAAAGTCTCCCAAGGCTTTGGCCTGAGACCTGTGAAAAATA
 CCGCATCTGGGTACACGACGGGCATCGAGGTCGATTCAACACGCTTTAAGCTTCTAGAGCCTGAACTGCT
 CCAGGAAATCTCAGAGATCGAGCAGAAGTTTAAACCCGTGGCAAAGTCCAGGAAAAAGGCCAGAAAACC
 TGCATTCTTTTTGTCCTCAAGGATAAAGACTTAGACCTGTGAGTGCAGTCTACACAGGTTTTACTGATG
 CCTTCCAGCGTGCCACGTGGCAGCTGAGGACAGAAGTTCTGTGCGTGAAAGGGTTGGGCAAGGAGAGAGC
 TCGCTTACACAATACCAAGTTTGGCCGACAATTTAAAAAAGAGCACCCGAATGTGCACTTTGTGACATCT
 CAGGAGTCAGTGACCTTGACTGGCTTGCCACATCACCTTGCGCAGGCAATGCAGTATGTCTCCAAAAGAA
 TGGGACTGGCACCGTCATCTGGAGAGAACTCGCTATGGATCAGGAAACCCCATGGAGATCAGCAGTAG
 TGACCCCATGGAGGTCAGCAGGAGAATGCAGCCTTACCTGCTCCCGAGGCACCTTAGCAGCCCTGCA
 GCTTCGAAGGGGACTGAGGACTACTGTGTCATCTGCATGGATACCATCAGCAACAAGCACGTGCTCCCA
 AGTGCAAGCATGAATTCGCACCTCGTGTATCAGCAAAGCCATGCTTATCAAGCCTGTCTGTCTGTGTG
 TCTGACTTCTACGGCATCCAGAAAGGGAACGACCAGAGGGAACCATGTCTTACTCCACTCAAAAAGGG
 TCACTTCCAGGTTATGAAGGCTGTGGCACCATTGTGATTAATTATGAAATAAAAGATGGCATCCAAACAA
 AAGAGCACCCAAACCCAGGAAAGGCTTATCATGGAACACGGCAGCACTGCATACTTGCTGATAATACTGA
 GGAAGAAAGGTTTTGGATCTGCTCCACGAAGCCTTTAAGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210070 representing BC085093
 Red=Cloning site Green=Tags(s)

MASSPDPSPPLL VRLRESIPKAHRKLEIYFQSRASGGGECVQPVGPSAPDTYEVKFLKKADKEKVLKKS
 EHMLVHNKPVTVLETTKKPVEDLRPRLPSLTQPVETPSSRPPSLTGSLDEALCDDIHPQDGLVNSVD
 SVVQKIFLAVTAELNCDLLSKEQRASITTVCPHIKSMEGSDGKIKKVCNFKDIEKIHHLSEQLLREQ
 KRKGSEQKRKCAPQKHTPPDVEREPPDQSSIQVPVLLLEVFKHVNPGRLEFIEYKFGVNIEIQASSPNMV
 TVGFTSSPFGNVEEASQSFVRDFQKCSQSLKQDCISLEEHQRAKEVRQELSRCFPKLLIKGQGRTLTLG
 SPADISAATEKVSQGLLRPVKITASGYTTGIEVDSTRFKLLEPELLQEISEIEQKFNTRGKVQEKGQKT
 CILFVPKDKDLDSVQSYTGFTDAFQRATWQLRTEVLSLKGLGKERARLHNTKFDNFKEHPNVHFVTS
 QESVTLTGLPHHLAQAMQYVSKRMGLAPSSGEKAMDQETPMEISSDPHGGQENAAAPRGTSSSPA
 ASKGTEDYCVICMDTISNKHVLPKCKHEFCTSCISKAMLKPVCPVCLTSYGIQKGNQPEGTMSYSTQKG
 SLPGYEGCGTIVINYEIKDGIQTKEHPNPGKAYHGTRRTAYLPDNTTEGRKVLDLLHEAFKH

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC085093

ORF Size: 2075 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: [BC085093](#), [AAH85093](#)

RefSeq Size: 5137 bp

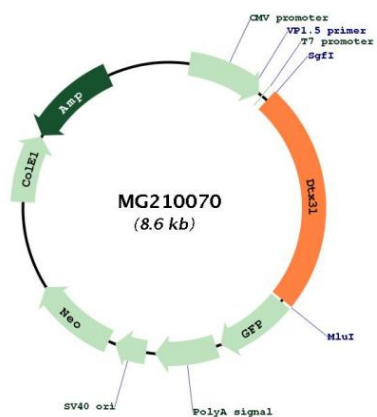
RefSeq ORF: 2075 bp

Locus ID: 209200

Cytogenetics: 16 B3

Gene Summary: E3 ubiquitin-protein ligase which, in association with ADP-ribosyltransferase PARP9, plays a role in DNA damage repair and in interferon-mediated antiviral responses. Monoubiquitinates several histones, including histone H2A, H2B, H3 and H4. In response to DNA damage, mediates monoubiquitination of 'Lys-91' of histone H4 (H4K91ub1). The exact role of H4K91ub1 in DNA damage response is still unclear but it may function as a licensing signal for additional histone H4 post-translational modifications such as H4 'Lys-20' methylation (H4K20me). PARP1-dependent PARP9-DTX3L-mediated ubiquitination promotes the rapid and specific recruitment of 53BP1/TP53BP1, UIMC1/RAP80, and BRCA1 to DNA damage sites. By monoubiquitinating histone H2B HIST1H2BH/H2BJ and thereby promoting chromatin remodeling, positively regulates STAT1-dependent interferon-stimulated gene transcription and thus STAT1-mediated control of viral replication. Independently of its catalytic activity, promotes the sorting of chemokine receptor CXCR4 from early endosome to lysosome following CXCL12 stimulation by reducing E3 ligase ITCH activity and thus ITCH-mediated ubiquitination of endosomal sorting complex required for transport ESCRT-0 components HGS and STAM. In addition, required for the recruitment of HGS and STAM to early endosomes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210070