

Product datasheet for **RG231353**

DDX3 (DDX3X) (NM_001193417) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX3 (DDX3X) (NM_001193417) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDX3
Synonyms:	CAP-Rf; DBX; DDX3; DDX14; HLP2; MRX102; MRXSSB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG231353 representing NM_001193417
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTCATGTGGCAGTGAAAAATGCGCTCGGGCTGGACCAGCAGTTTGTCTGGCCTAGACCTGAACCTCTT
 CAGATAATCAGAGTGGAGGAAGTACAGCCAGCAGTTTCTACGATAAAGACAGTTCAGGGTGGAGTTCTAG
 CAAAGATAAGGATGCGTATAGCAGTTTTGGATCTCGTAGTGATTCAAGAGGGAAGTCTAGCTTCTCAGT
 GATCGTGGAAAGTGGATCAAGGGGAAGTTTGTATGATCGTGGACGGAGTGATTACGATGGCATTGGCAGCC
 GTGGTGACAGAAGTGGCTTTGGCAAATTTGAACGTGGTGGAAACAGTCGCTGGTGTGACAAATCAGATGA
 AGATGATTGGTCAAACCACTCCCAAGTGAACGCTTGAACAGGAACCTTTTCTGGAGGCAACACT
 GGGATTAATTTGAGAAATACGATGACATTCCAGTTGAGGCAACAGGCAACAACCTGTCTCCACATATTG
 AAAGTTTCAGTGATGTTGAGATGGGAGAAATTATCATGGGAAACATTGAGCTTACTCGTTATACTCGCCC
 AACTCCAGTGCAAAGCATGCTATTCTATTATCAAAGAGAAAAGAGACTTGATGGCTTGTGCCAAACA
 GGGTCTGGAAAACTGCAGCATTCTGTGGCCATCTTGAGTCAGATTTATTCAGATGGTCCAGGCGAGG
 CTTTGGAGGCCATGAAGGAAAATGGAAGGTATGGGCGCCGCAACAATACCCAATCTCCTTGGTATTAGC
 ACCAACGAGAGAGTTGGCAGTACAGATCTACGAGGAAGCCAGAAAATTTTCATACCGATCTAGAGTTCGT
 CCTTGGCTGGTTTATGGTGGTCCGATATTGGTCAGCAGATTCGAGACTTGAACGTGGATGCCATTTGT
 TAGTAGCCACTCCAGGACGTCTAGTGGATATGATGGAAAGAGGAAAGATTGGATTAGACTTTTGC AAATA
 CTTGGTGTAGATGAAGCTGATCGGATGTTGGATATGGGGTTTGAAGCCTCAGATTCGTAAGATAGTCGAA
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 GTCGTACGGGACGTGTAGGAAACCTTGGCTGGCAACCTCATTCTTAAACGAGAGGAACATAAATATTAC
 TAAGGATTTGTTGATCTTCTTGTGAAGCTAAACAAGAAGTCCCGTCTTGGTTAGAAAACATGGCTTAT
 GAACACCACTACAAGGTAGCAGTCGTGGACGTTCTAAGAGTAGCAGATTTAGTGGAGGTTTGGTGCCA
 GAGACTACCGACAAAGTAGCGGTGCCAGAGTTCAGCTTCAGCAGCAGCCGCGCAAGCAGCAGCCGCGAG
 TGGCGGAGGTGGCCACGGTAGCAGCAGAGGATTTGGTGGAGGTGGCTATGGAGGCTTTTACAACAGTGAT
 GGATATGGAGGAAATTATAACTCCAGGGGTTGACTGGTGGGTAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG231353 representing NM_001193417
 Red=Cloning site Green=Tags(s)

MSHVAVENALGLDQQFAGLDLNSSDNQSGGSTASSFYDKDSSGWSSSKDKDAYSSFGSRSDSRGKSSFFS
 DRGSGSRGRFDDRGRSDYDGIISRGRDRSGFGKFERGGNSRWCDKSDDEDDWSKPLPPSERLEQELFSGGNT
 GINFEKYDDIPVEATGNPCPHIESFSDVEMGEIIMGNIELTRYTRPTPVQKHAIPPIIIEKRDLMACAQT
 GSGKTA AFLLPILSQIYSDGPGEALRAMKENGRYGRKQYPIISLVLAPTRELAVQIYEEARKFSYRSRVR
 PCVVYGGADIGQQIRDLERGLLVA TPGR LVDMMERGI GLDFCKYLVLDEADRMLDMGFEPQIRRIIVE
 QDTMPPKGV RHTMMFSATFPKEIQMLARDFLDEYIFLAVGRV GSTENITQKV VVVEESDKRSFLDLLN
 ATGKDSLTLV FVETKKGADSLDFLYHEGYACTSIHGDRSQRDREALHQFRSGKSPILVATAVAARGLD
 ISNVKHVINFDLPSDIEEYVHRIGRTGRVGNLGLATSFNERNINITKDLLDLLEAKQEVPSWLENMAY
 EHHYKGSRSRGSKSSRFSGGFGARDYRQSSGASSSSFSRASSRSRGGGGHGSSRFGGGGYGGFYNSD
 GYGGNYNSQGV DWWGN

TRTRPLE – GFP Tag – V

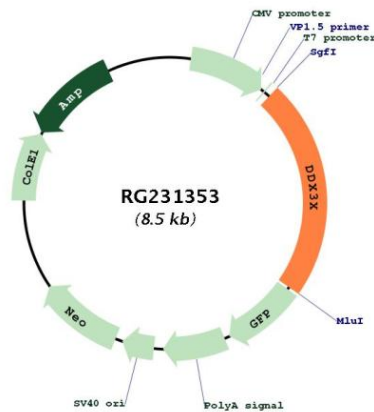
Cytogenetics: Xp11.4

Protein Families: ES Cell Differentiation/IPS

Protein Pathways: RIG-I-like receptor signaling pathway

Gene Summary: The protein encoded by this gene is a member of the large DEAD-box protein family, that is defined by the presence of the conserved Asp-Glu-Ala-Asp (DEAD) motif, and has ATP-dependent RNA helicase activity. This protein has been reported to display a high level of RNA-independent ATPase activity, and unlike most DEAD-box helicases, the ATPase activity is thought to be stimulated by both RNA and DNA. This protein has multiple conserved domains and is thought to play roles in both the nucleus and cytoplasm. Nuclear roles include transcriptional regulation, mRNP assembly, pre-mRNA splicing, and mRNA export. In the cytoplasm, this protein is thought to be involved in translation, cellular signaling, and viral replication. Misregulation of this gene has been implicated in tumorigenesis. This gene has a paralog located in the nonrecombining region of the Y chromosome. Pseudogenes sharing similarity to both this gene and the DDX3Y paralog are found on chromosome 4 and the X chromosome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

Product images:



Circular map for RG231353