

Product datasheet for **RG226072**

DDX3Y (NM_001122665) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX3Y (NM_001122665) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDX3Y
Synonyms:	DBY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG226072 representing NM_001122665
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTCATGTGGTGGTAAAAATGACCCTGAACTGGACCAGCAGCTTGCTAATCTGGACCTGAACTCTG
AAAAACAGAGTGGAGGAGCAAGTACAGCGAGCAAAGGGCGCTATATACCTCCTCACTTAAGGAACAGAGA
AGCATCTAAAGGATTCCATGATAAAGACAGTTCAGGTTGGAGTTCAGCAAAAGATAAGGATGCATATAGC
AGTTTTGGGTCTCGAGATTCTAGAGGAAAGCCTGGTTATTTCACTGAACTGGAAGTGGATCAAGGGGAA
GATTTGATGATCGTGGACGGAGTACTATGATGGTATTGGCAATCGTAAAAGACCTGGCTTTGGCAGATT
TGAACGGAGTGGACATAGTCGTTGGTGTGACAAGTCAGTTGAAGATGATTGGTCAAAACCACTCCACCA
AGTGAACGCTGGAGCAAGAAGTGTCTGGAGGAAACACGGGGATTAACCTTGAGAAAATATGATGATA
TACCAGTAGAGGCAACCGCAGTAACTGTCTCCACATATTGAGAATTTAGCGATATTGACATGGGAGA
AATTATCATGGGGAACATTGAACTTACTCGCTATACTCGTCTACTCCAGTGCAAAAACATGCCATTCTCT
ATTATTAAGGGAAAAAGAGACTTAATGGCTTGTGCCCAAACAGGATCTGGGAAAACATGCAGCATTCTTT
TACCCATACTGAGTCAGATATATACAGATGGTCCAGGAGAAGCTTTGAAGGCTGTGAAGGAAAATGGAAG
GTATGGGCGCCGCAAAACATATCCAATATCCTTGGTTTTAGCCCCAACAGAGAATTGGCTGTACAGATC
TATGAGGAAGCCAGAAAATTTCTACCGATCTAGAGTTCGCTCTGTGTAGTTTATGGTGGTGTGATA
TTGGTCAGCAGATTCCGGACTTAGAACGTGGATGCCACTTGTAGTAGCCACTCCAGGACGTCTAGTGGA
TATGATGGAAGAGGAAAGATTGGATTAGACTTCTGCAAGTACTAGTGTGGATGAAGCTGATAGGATG
CTGGATATGGGATTTGAACCTCAGATACGTCGTATAGTTGAACAAGATACTATGCCACCAAGGGCGTTC
GTCACACCATGATGTTTAGTGCTACTTTTCCTAAGGAAATACAGATGCTTGTCTGCTGACTTTTTGGATGA
ATATATCTTTTTGGCTGTAGGCAGAGTAGGCTCTACCTCTGAGAACATCACACAGAAAGTAGTTTGGGTG
GAAGACTTAGATAAACGGTCATTTCTACTGGACATTTTAGGTGCAACAGGGAGTGATTCACTTACTTTAG
TGTTTGTGGAGACAAAAAGGGAGCAGATTCCTGGAGGATTTCTATACCATGAAGGATATGCTTGTAC
TAGTATTCATGGAGACCGGTCACAGAGAGATCGAGAGGAGGCCCTTACCAGTTTCGCTCAGGAAAAAGC
CCAATTCTAGTGGCTACAGCTGTGGCAGCAGGAGTACTAGACATTTCAAATGTGAGACATGTTATCAATT
TTGATTTGCCAAGTGATATTGAAGAATATGTGCATCGTATTGGCCGTACAGGACGTGTAGGAAACCTGGG
CCTTGCCACCTCATTCTTAATGAAAAAATATGAATATTACAAAGGATTTGTTGGATCTTCTGTAGAA
GCTAAACAAGAAGTGCCTTCTTGGTTGGAAAATATGGCTTATGAACACCACTACAAGGGTGGCAGTCGTG
GACGATCTAAAAGTAATAGATTCAGTGGAGGATTTGGTGGCAGAGACTATCGACAAAAGTAGTGGTTCCAG
CAGTTCTGGCTTTGGTGTAGTCGCGGAAGCAGCAGCCGAGTGGTGGAGGTGGTTACGGCAACAGCAGA
GGATTTGGTGGAGGTGGCTATGGAGGCTTCTACAATAGTGATGGATATGGAGGAAATTATAACTCCCAGG
GGGTTGACTGGTGGGCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226072 representing NM_001122665
 Red=Cloning site Green=Tags(s)

MSHVVKNDPELDQQLANLDLNSEKQSGGASTASKGRYIPPHLRNREASKGFHDKDSSGWSKSKDKDAYS
 SFGSRDSRGKPGYF SERGSGSRGRFDDRGRSDYDGI GNRERPGFGRFERSGHSRWCDSVEDDWSKPLPP
 SERLEQELFSGGNTGINFEKYDDIPVEATGSNCPPIENFSDIDMGEIIMGNIELTRYTRPTPVQKHAIP
 IIKGKRDLMACAQTGSGKTA AFLLPILSQIYTDGPGEALKAVKENGRYGRRKQYPI SLVLAPTRELAVQI
 YEEARKFSYRSRVRPCVYVGGADIGQQIRDLE RGCHLLVATPGRLVDMMERGKIGLDFCKYLVLDEADRM
 LDMGFEPQIRRIVEQDTMPPKGV RHTMMFSATFPKEIQMLARDFLDEYIFLAVGRV GSTSENITQKVVVV
 EDLDKRSFLLDILGATGSDSLTLVFVETKKGADSLDFLYHEGYACTSIHGDRSQRDREEALHQFRSGKS
 PILVATAVAARGLDISNVRHVINFDLPSDIEEYVHRIGRTGRVGNLGLATSF FNEKNMNI TKDLLLVE
 AKQEVPSWLENMAYEHHYKGGSRGRSKSNRFGGFGARDYRQSSGSSSGFGASRGSSSRGGGGYGNRS
 FGGGGYGGFYNSDGYGGNYNSQGV DWWGN

TRTRPLE - GFP Tag - V

Restriction Sites:

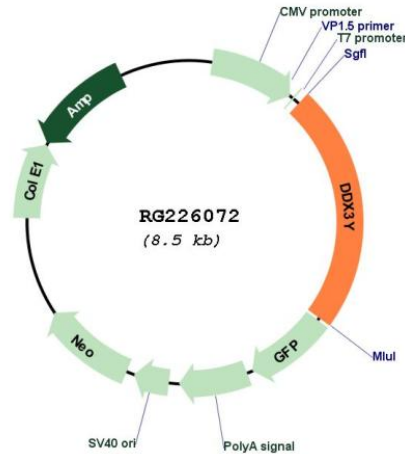
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001122665

ORF Size: 1980 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_001122665.3](#)

RefSeq Size: 4648 bp

RefSeq ORF: 1983 bp

Locus ID: 8653

UniProt ID: [O15523](#)

Cytogenetics: Yq11.221

Protein Pathways: RIG-I-like receptor signaling pathway

Gene Summary: The protein encoded by this gene is a member of the DEAD-box RNA helicase family, characterized by nine conserved motifs, included the conserved Asp-Glu-Ala-Asp (DEAD) motif. These motifs are thought to be involved in ATP binding, hydrolysis, RNA binding, and in the formation of intramolecular interactions. This protein shares high similarity to DDX3X, on the X chromosome, but a deletion of this gene is not complemented by DDX3X. Mutations in this gene result in male infertility, a reduction in germ cell numbers, and can result in Sertoli-cell only syndrome. Pseudogenes sharing similarity to both this gene and the DDX3X paralog are found on chromosome 4 and the X chromosome. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2014]