

## Product datasheet for **RC239232**

### **DDX3Y (NM\_001302552) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DDX3Y (NM_001302552) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DDX3Y
Synonyms:	DBY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC239232 representing NM\_001302552  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAATTTGGACGCCCGGAAAGACACCTGGAAGCTTGCTAATCTGGACCTGAACTCTGAAAAACAGA  
 GTGGAGGAGCAAGTACAGCGAGCAAAGGGCGCTATATACCTCCTCACTTAAGGAACAGAGAAGCATCTAA  
 AGGATTCCATGATAAAGACAGTTCAGGTTGGAGTTGCAGCAAAGATAAGGATGCATATAGCAGTTTTGGG  
 TCTCGAGATTCTAGAGGAAAGCCTGTTATTTCACTGAACGTGGAAGTGGATCAAGGGGAAGATTTGATG  
 ATCGTGGACGGAGTGACTATGATGGTATTGGCAATCGTGAAGACCTGGCTTTGGCAGATTTGAACGGAG  
 TGGACATAGTCGTTGGTGTGACAAGTCAGTTGAAGATGATTGGTCAAACCACTCCACCAAGTGAACGC  
 TTGGAGCAAGAAGTGTCTGGAGGAAACACGGGGATTAACCTTGAGAAATATGATGATATACCAGTAG  
 AGGCAACCGGCAGTAACGTCTCCACATATTGAGAATTTAGCGATATTGACATGGGAGAAATTATCAT  
 GGGGAACATTGAACTTACTCGCTATACTCGTCCTACTCCAGTGCAAAAACATGCCATTCTATTATTAAG  
 GAAAAAGAGACTTAATGGCTTGTGCCAAACAGGATCTGGGAAAACATGCAGATTTCTTTTACCCATAC  
 TGAGTCAGATATATACAGATGGTCCAGGAGAAGCTTTGAAGGCTGTGAAGGAAAATGGAAGGTATGGGCG  
 CCGCAACAATATCCAATATCCTTGGTTTTAGCCCAACAAGAGAATTGGCTGTACAGATCTATGAGGAA  
 GCCAGAAAATTTCTACCGATCTAGAGTTCGTCTTGTGTAGTTATGGTGGTGTGATATTGGTCAGC  
 AGATTCGGGACTTAGAACGTGGATGCCACTTGTAGTAGCCACTCCAGGACGTCTAGTGGATATGATGGA  
 AAGAGGAAAGATTGGATTAGACTTCTGCAAGTACTTAGTGTGGATGAAGCTGATAGGATGCTGGATATG  
 GGATTTGAACCTCAGATACGTCTATAGTTGAACAAGATACTATGCCACCAAGGGCGTTCGTACACCA  
 TGATGTTTAGTGCTACTTTTCTAAGGAAATACAGATGCTTGTCTGTGACTTTTTGGATGAATATATCTT  
 TTTGGCTGTAGGCAGAGTAGGCTCTACCTCTGAGAACATCACACAGAAAGTAGTTTGGGTGGAAGACTTA  
 GATAAACGGTCATTTCTACTGGACATTTTAGGTGCAACAGGGAGTGATTCACTTACTTTAGTGTGGTGG  
 AGACAAAAAGGGAGCAGATTCCCTGGAGGATTTCTTATACCATGAAGGATATGCTTGTACTAGTATTCA  
 TGGAGACCGGTCACAGAGAGATCGAGAGGAGGCCCTTACCAGTTTCGCTCAGGAAAAAGCCCAATTCTA  
 GTGGCTACAGCTGTGGCAGCAGGACTAGACATTTCAAATGTGAGACATGTTATCAATTTTGATTTGC  
 CAAGTGATATTGAAGAATATGTGCATCGTATTGGCCGTACAGGACGTGTAGGAAACCTGGGCCTTGCCAC  
 CTCATTCTTAATGAAAAAATATGAATATTACAAAGGATTTGTTGGATCTTCTGTAGAAGCTAAACAA  
 GAAGTGCCTTCTTGGTTGAAAAATATGGCTTATGAACACCACTACAAGGGTGGCAGTCGTGGACGATCTA  
 AAAGTAATAGATTCAGTGGAGGATTTGGTGCCAGAGACTATCGACAAAGTAGTGGTTCAGCAGTTCTGG  
 CTTTGGTGTAGTCGCGGAAGCAGCAGCCGAGTGGTGGAGGTGGTTACGGCAACAGCAGAGGATTTGGT  
 GGAGGTGGCTATGGAGGCTTCTACAATAGTGATGGATATGGAGGAAATTATAACTCCCAGGGGGTTGACT  
 GGTGGGGCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC239232 representing NM\_001302552  
Red=Cloning site Green=Tags(s)

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MEIGRPRKDTWKLANLDLNSEKQSGGASTASKGRYIPPHLRNREASKGFHDKDSSGWSCSKDKDAYSSFG
SRDSRGKPGYF SERGSGSRGRFDDRGRSDYD GIGNRERPGFGRFERSGHSRWCDKSVEDDWSKPLPPSER
LEQELFSGGNTGINFEKYDDIPVEATGSNCPPIHENFSDIDMGEIIMGNIELTRYTRPTPVQKHAIP I I K
GKRDLMACAQTGSCKTAAFLLPILSQIYTDGPG EALKAVKENG RYGRRKQYPI SLVLAPTRELAVQIYEE
ARKFSYRSRVRPCVVYGGADIGQQIRD LERGCHLLVATPGRLVDMMERGKIGLDFCKYLVLDEADRMLDM
GFEPQIRRIVEQDTMPPKGV RHTMMFSATFPKEIQMLARDFLDEYIFLAVGRV GSTENITQKV VVWEDL
DKRSFLLDILGATGSDSLTLVFVETKKGADSL EFLYHEGYACTSIHGDRSQRDRE EALHQFRSGKSPIL
VATAVAARGLDISNVRHVINFDLP SDIEEYVHRIGRTGRVGNLGLAT SFFNEKNMNI TKDLLDLLEAKQ
EVPSWLENMAYEHYKGGSRGRSKSNRFSGGFGARDYRQSSGSSSSGFGASRGSSSRSGGGYGN SRGFG
GGGYGGFYNSDGYGGNYNSQGV DWWGN
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001302552

**ORF Size:** 1971 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\\_001302552.2](#), [NP\\_001289481.1](#)

**RefSeq Size:** 2470 bp

**RefSeq ORF:** 1974 bp

**Locus ID:** 8653

**UniProt ID:** [O15523](#)

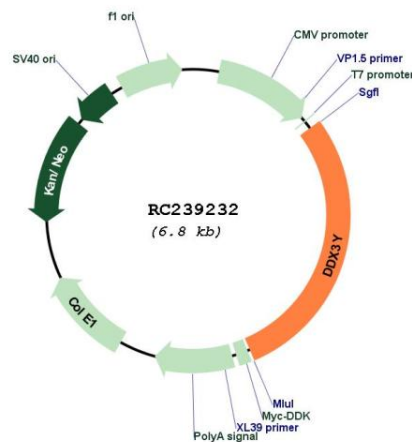
**Cytogenetics:** Yq11.221

**Protein Pathways:** RIG-I-like receptor signaling pathway

**MW:** 73.4 kDa

**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]

### Product images:



Circular map for RC239232