

Product datasheet for **RG219308**

DDX11 (NM_030653) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX11 (NM_030653) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDX11
Synonyms:	CHL1; CHLR1; KRG2; WABS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG219308 representing NM_030653
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTAATGAAACACAGAAGGTTGGTGCCATCCATTTTCCTTTCCCTTACACCCATTCCATCCAGG
 AAGACTTCATGGCAGAGCTGTACCGGGTTTTGGAGGCTGGCAAGATTGGGATATTTGAGAGTCCAACCTGG
 CACTGGGAAGTCCTTAAGTCTTATTTGTGGGGCCCTCTTTGGCTCCGTGACTTTGAACAGAAGAAGCGT
 GAAGAAGAGGCACGACTCCTTAAAAGTGGAACTGGCCCTTACATGATGAGAAAGATGAATCCCTGTGTC
 TGTCTTCTTCTGCGAAGGGGCTGCAGGCACCCCGAGGCCTGCTGGAGAACCAGCCTGGGTTACTCAGTT
 TGTGCAGAAGAAAGAAGAGAGGGACCTGGTGGACCGACTAAAGCGGAGCAGGCCAGGAGGAAGCAGCGA
 GAAGAACCCTGCAGCAGCTGCAGCACAGGGTGCAGCTCAAGTATGCAGCCAAGCGCCTGAGGCAGGAAG
 AAGAAGAAAGAGAGAATCTCTCCGCCTCAGCAGGGAGATGCTAGAGACAGGCCCGGAGGCTGAGCGGCT
 GGAGCAGCTGGAGTCTGGGGAGGAGGAGCTGGTCTCGCCGAATACGAGAGTGATGAGGAGAAAAAGGTG
 GCGAGCAGAGTGGATGAGGATGAGGATGACCTGGAGGAAGAACACATAACTAAGATTTTACTGTAGTC
 GGACACACTCCCAGCTGGCCAGTTTGTGCATGAGGTGAAGAAGAGCCCTTTGGCAAGGATGTTCCGGCT
 GGTCTCCCTTGGCTCCCGGCAGAACCTTTGTGTAATGAAGACGTGAAAAGCCTAGGTTCTGTGCAGCTT
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 CAAAGAGGAGGAGGCAGGAGAAGCAGGCAGCCTGCCCTTCTACAACCACGAGCAGATGGGCCTTCTCCG
 GGATGAGGCCCTGGCAGAGGTGAAGGACATGGAGCAGCTGCTGGCCCTTGGGAAGGAGGCCCGGGCTGT
 CCCTATTACGGGAGCCGCTTGCCATCCCTGCAGCCAGCTGGTGGTGTGCCCTATCAGATGCTGCTGC
 ATGCGGCCACTCGCAGGCCCGGGCATCCGGCTGCAGGACCAGGTGGTATCATCGCAGGCGCACAA
 CCTGATCGACACCATCACGGGCATGCACAGCGTGGAGGTGAGCGGCTCCAGCTCTGCCAGGCCATTCC
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 TCTGTACAGACAGGGACGGAGCTGAAGACCATCAACGACTTTCTCTCCAGAGCCAGATCGACAACATC
 AACCTGTTCAAGGTGCAGCGATACTGTGAGAAGAGCATGATCAGCAGAAAGCTCTTTGGATTCACTGAAC
 GGTACGGAGCAGTGTCTCATCCCGGAGCAGCCAAACTGGCTGGGTTTTCAGCAATTCCTGCAGAGCCT
 GCAGCCCAGGACGACTGAAGCTTTCAGCCCTGCAGACGAGAGTCAGGCCAGCACCTCGCAGCAGCT
 TCTCCACTGATGCACATTGAAGGCTTCTGGCAGCTCTACTACGGCCAACCAGGACGGCAGGGTCAATCC
 TGAGCCGCCAAGGCAGCCTCAGTCAGAGCACCTGAAATTTTTGCTCCTGAATCCAGCTGTGCATTTGC
 CCAAGTGGTGAAGGAATGCCGGGCAAGTGGTCAATTCGGGGGGTACCATGCAGCCGGTGTCTGACTCCGG
 CAGCAGCTGCTGGCCTGTGCCGGGTGGAAGCTGAGCGCGTGGTGGAGTTTTCTGTGGTACAGTATCC
 CTCCAGACAACATCCTGCCCTTGTCACTGCAGCGGATCTCCAACCAGCCGCTGGAATTCACGTTCCA
 GAAAAGAGAGCTGCCTCAGATGATGGACGAGGTGGTTCGATTCTCTGTAACCTGTGCGGTGTGGTTCT
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 AACCTCCCAGAGCCCCCGCCAGGCACCCCCAGGGAAGGCTCTGGTGGAGAACCTGTGCATGAAGGCC
 GTCAACCAGTCCATAGGCAGGGCCATCAGGCACCAAGAAGGATTTTCCAGCATAGTCTCTGGACCAGC
 GATATGCCCGGCCCTGTCTGGCCAAGCTGCCGCCTGGATCCGAGCCCGTGTGGAGGTCAAAGCTAC
 CTTTGGCCCCGCCATTGCTGCTGCAGAAGTTTACCAGGAGAAGTCCGGCCTCTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**

Protein Sequence: >RG219308 representing NM_030653
 Red=Cloning site Green=Tags(s)

MANETQKVGAIHFPPFTPYSIQEDFMAELYRVLEAGKIGIFESPTGTGKSLSLICGALSWLRDFEQKRR
 EEEARLLETGTGPLHDEKDESLCLSSSCEGAAGTPRPAGEPAWVTQFVQKKEERDLVDRLKAEQARRKQR
 EERLQQLQHRVQLKYAAKRLRQEEEEERENLLRLSREMLETGPEARLEQLESSEEELVLAEYESDEEKV
 ASRVDEDEDDLEEEHITKIYYCSRTHSQLAQFVHEVKKSPFGKDVRLVSLGSRQNLVSNEDVKSLGVSQ
 INDRCVDMQRSRHEKKKGAEEKPKRRRQEKQAACPFYNHEQMGLLRDEALAEVKDMEQLLALGKEARAC
 PYYGSRLAIPAAQLVVLPHYMLLHAATRQAAGIRLQDQVVIIDEAHNLIDTITGMHSVEVSGSQLCQAH
 QLLQYVERYGKRLKAKNLMYKQILYLLLEKFVAVLGGNIKQNPNTQSLSQGTGTELKTINDFLFQSQIDNI
 NLFKVQRYCEKSMISRKLFGFTERYGAVFSSREQPKLAGFQQFLQSLQPRTEALAAPADESQASTLRPA
 SPLMHIEGFLAALTTANQDGRVILSRQGSLSQSTLKFKLLNPAVHFAQVVKECRAVVIAGGTMQPVSDFR
 QQLLACAGVEAERVVEFSCGHVIPPNDILPLVICSGISNQPLEFTFQKRELQMMDEVGRILCNLCGVVP
 GGVVCFPPSYEYLRQVHAHWEKGLLGRLAARKKIFQEPKSAHQVEQVLLAYSRCIQACQGERGQVTGAL
 LLSVVGKMSSEGINFSDNLRGVVMVGMPPFNIRSAELQEKMAYLDQTLPRAPGQAPPKALVENLCKMA
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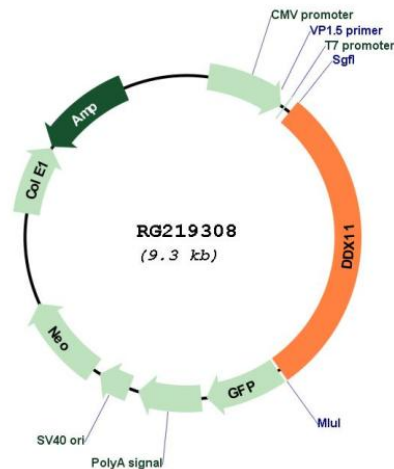
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_030653

ORF Size: 2718 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_030653.2](#), [NP_085911.1](#)

RefSeq Size: 3875 bp

RefSeq ORF: 2721 bp

Locus ID: 1663

Cytogenetics: 12p11.21

Domains: DEXDc2, HELICc2

Protein Families: Stem cell - Pluripotency

Gene Summary: DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein, which is an enzyme that possesses both ATPase and DNA helicase activities. This gene is a homolog of the yeast CHL1 gene, and may function to maintain chromosome transmission fidelity and genome stability. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]