

## Product datasheet for **SC117400**

### **DDX11 (NM\_004399) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DDX11 (NM_004399) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDX11
Synonyms:	CHL1; CHLR1; KRG2; WABS
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_004399, the custom clone sequence may differ by one or more nucleotides

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ATGGCTAATGAACACAGAAGGTTGGTGCCATCCATTTTCCTTTCCCTTCACACCCTATTCATCCAGG
AAGACTTCATGGCAGAGCTGTACCGGGTTTTGGAGGCTGGCAAGATTGGGATATTTGAGAGTCCAACCTGG
CACTGGGAAGTCCTTAAGTCTTATTTGGGGCCCTCTCTTGGCTCCGTGACTTTGAACAGAAGAAGCGT
GAAGAAGAGGCACGACTCCTTGAAACTGGAAGTGGCCCTTACATGATGAGAAAAGATGAATCCCTGTGTC
TGTCTTCTTCTGCGAAGGGGCTGCAGGCACCCCGAGGCCTGCTGGAGAACCAGGCCTGGGTTACTCAGTT
TGTGCAGAAGAAAGAAGAGAGGGACCTGGTGGACCGACTAAAGGCGGAGCAGGCCAGGAGGAAGCAGCGA
GAAGAACCGCTGCAGCAGCTGCAGCACAGGGTGCAGCTCAAGTATGCAGCCAAGCGCCTGAGGCAGGAAG
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GGAGCAGCTGGAGTCTGGGGAGGAGGAGCTGGTCTCGCCGAATACGAGAGTGATGAGGAGAAAAAGGTG
GCGAGCAGAGTGGATGAGGATGAGGATGACCTGGAGGAAGAACACATAACTAAGATTTTACTGTAGTC
GGACACACTCCCAGCTGGCCAGTTTGTGCATGAGGTGAAGAAGAGCCCTTTGGCAAGGATGTTCCGGCT
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ATCAACGACCGCTGTGTGGACATGCAGAGAAGCAGGCACGAGAAGAAGAAGGAGCTGAGGAGGAGAAGC
CAAAGAGGAGGAGGCAGGAGAAGCAGGCAGCCTGCCCTTCTACAACCAGCAGATGGGCCTTCTCCG
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CCTGATCGACACCATCACGGGCATGCACAGCTGGAGGTCAGCGGCTCCCAGCTCTGCCAGGCCATTCC
CAGCTGCTGCAGTACGTGGAGCGATACGGGAAGCGTTTGAAGGCCAAGAACCTGATGTACTGAAGCAGA
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AACCTGTTCAAGGTGCAGCGATACTGTGAGAAGAGCATGATCAGCAGAAAGCTCTTTGGATTCACTGAAC
GGTACGGAGCAGTGTTCATCCCGGGAGCAGCCAAACTGGCTGGGTTTCAGCAATTCCTGCAGAGCCT
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TCTCCACTGATGCACATCCAAGGCTTCTGGCAGCTCTCACTACGGCCAACCAGGACGGCAGGGTCAATCC
TGAGCCGCAAGGCAGCCTCAGTCAGAGCACCTGAAGTTTTTGTCTCTGAATCCAGCTGTGCATTTGC
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CAGCAGCTGCTGGCCTGTGCCGGGTGGAAGCTGAGCGCGTGGTGGAGTTTTCTGTGGTACGTGATCC
CTCCAGACAACATCCTGCCCTCGTCATCTGCAGCGGGATCTCCAACCAGCCGCTGGAATTCACGTTCCA
GAAAAGAGAGCTGCCTCAGATGATATCCAGGAACCTAAGAGCGCACACCAGGTGGAGCAGGTGCTGCTG
GCATATTCAGGTGCATCCAGGCCTGTGGCCAGGAGAGAGGCCAGGTGACAGGGGCCCTGCTCCTCTCTG
TGGTTGGAGGAAAGATGAGTGAAGGGATCAACTTCTCTGACAACCTAGGCCGGTGTGTGGTATGGTGGG
CATGCCCTTCCCAACATCAGGTCTGCAGAGCTGCAGGAGAAGATGGCCTACTTGATCAAACCTCCCC
AGAGCCCCCGCCAGGCACCCCAAGGAGGCTCTGGTGGAGAACCTGTGCATGAAGCCCGTCAACCAGT
CCATAGGCAGGGCCATCAGGCACCAGAAGGATTTGCCAGCGTAGTGTCTCTGGACCAGCGATATGCCCG
GCCCCCTGCTGGCCAAGCTGCCGGCCTGGATCCGAGCCCGTGTGGAGGTCAAAGCTACCTTTGGCCCC
GCCATTGCTGCTGTGCAGAAGTTTACCAGGAGAGTCCGGCTCTTCTGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_004399 unedited</p> <p>GCGGAATTCGCACGAGGCTGATCCCGGGCCTGGCTTTCAGCGTAGCAATTCTGCCGGC          GAAGAAGGTGAGCGCAGTGTGTGGCAGCAGAGCTCCTTAGGACGAGGAGCAGCGGGA          CGAGGAAGGGCAGACTGGTAAAACGCAAACCTGGGCGTCTGTTCCGGCGCCGACCCCTA          TTTGCAAAGGTCCATGGCTAATGAAACACAGAAGTTGGTGCCATCCATTTTCTTTTCC          CTTTACACCCTATTCCATCCAGGAAGACTTCATGGCAGAGCTGTACCGGTTNNTGGAGG          CTGGCAAAGATTGGNGATATTTGAGAGTCCAACCTGGCCTGGGGAAGTCTTAAGCTTATT          TTGTGGGGCCCTCTCTGGCTCCGTGACTTTGAACAGAAGAAGCGTGAAGAAGAGGCACG          ACTCCTTGAAACTGGAACCTGGCCCTTACATGATGAGAAAAGATGAACCCTNNNGTCTGTC          TTCTTCTCGCAAGGGGCTGCAGGCCCCCGAGGCCTGCTGGAGAAAACGGCCTGGTTAC          TTCAANTTTGTGAGAAGAAAGAAGAGAGGGACCTGGTGGACCGACTAAANAGGCNNGN          NAGAGNAAGANAGAGAGAATCTCNCNTCCGCTCACAGGGGAGATGCTNNAGACAGGCCCG          GNAGCTTGACCGCTGGAGCNCCTGNAGTCTGGGAGGGGAAAAAACGGGCTCCCTCC          CCAATTACCAGAAGGAATGAGGAAAAAAGGTGGCGGCAAAATTGGTTAAGGATAAAGA          AGAAAACCCCGGAGGAAAAACCTAACCTAAGAATTATTACTGGGGTGGAAACTC          CCAACTGGGCCCAATTTGGGCATGAAGGAAAAAACCCTTTTGCAAAGGAGATNNNN          GGGGGGCTCCCTTGGCTCCA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004399 unedited</p> <p>TTTCAGGGCTTATAGCTGTGAGGATGCAAACATCTGGGCATCAGTGACTTTCCTCTG          CCCCCTTTGTCCCTGATGGTGGCAGAAGATCCCAGCTGACCACAGCCCTTCTCTGGG          TCAGAGGGAGAAGACAGGCGCAGTCAGCAGGGGAGCTGTTGCAGTGGGAGGGATATTT          TCCCACAGGAACAAAGGTCTCCGTGATGACACGGGTCTCTATAGTCATGTTGAGAGCCT          AACGGCCCTTGGCATAATTGCTGGTGTGGGTAGAAGGTGCTTGGAGTTTGCTCAAGT          GGTTGAGAGGGGAGGGAGGTGCCATAGACTTGGAGAACTGGCACGAAGCCAAGGATACAA          ATCCAGGCAGGGCTGTGGGACAGGATAGGGAGCAGGGCCTTCTACTGAAGGAGTGACTCA          GGAAGGAGGAGGGGAAGGTGACAAGCCCTGTGCAGGAGCCCTGTGGCCATGGATCATT          TTAATTGAGACCAGAGAGTGAGCAGTCCAGGGCAGCTATAACCTTGGCTAGAAAGGGCA          GAGGCAGATGGGCTGCTCCATCTCGCCTCTTTAGAAGGTGGGACGACCGAGATGCCCA          GTGGATGCCACAGTTGCCACAGCTTCTGCGGAACCATGAGGAAGCCTGCTCTCAGCCCTC          CGGATGGAAGAAAGATTCTATTACAGGAGGAGCTGCCCTGAACGCCAGGCCAGCCAGAC          CCCTGGTCATTAGGATCCCCCTTTTTCTACGGAGCTAAGCCTGTGCTTGGTCTTGGAAA          ATTTGGATCACACTTTCTCTGGGTTTACTTGTAAACAGATCCCGCAACCACCCCAAA          AACTTGTCTTCCCGCCGAAAAGGAAGGCACGTCCCGTATGGGGGGCGTTCTTCAAAAA          GGCCCTTTTCGGGAAATTCCTCAAATTTGTGGCCCAAGTATTTACTCTCACGTCTTTTC          TCTCGAGTTCCCTACGGTTCGCTTCTCTCAACCTCTTGACATCTTGGCCT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004399
<b>Insert Size:</b>	3900 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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\\_004399.1](#), [NP\\_004390.2](#)

**RefSeq Size:** 3797 bp

**RefSeq ORF:** 2571 bp

**Locus ID:** 1663

**UniProt ID:** [Q96FC9](#)

**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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon and uses an alternate splice junction compared to variant 3, that results in a frameshift. The resulting isoform (2) lacks an internal segment and has a distinct C-terminus compared to isoform 3.