

Product datasheet for **SC109150**

DDX11 (NM_030653) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | DDX11 (NM_030653) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | DDX11 |
| Synonyms: | CHL1; CHLR1; KRG2; WABS |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_030653, the custom clone sequence may differ by one or more nucleotides

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ATGGCTAATGAAACACAGAAGGTTGGTGCCATCCATTTTCCTTTCCCTTCACACCCTATTCATCCAGG
AAGACTTCATGGCAGAGCTGTACCGGGTTTGGAGGCTGGCAAGATTGGGATATTTGAGAGTCCAACCTGG
CACTGGGAAGTCCTTAAGTCTTATTTGGGGCCCTCTCTTGGCTCCGTGACTTTGAACAGAAGAAGCGT
GAAGAAGAGGCACGACTCCTTGAAACTGGAAGTGGCCCTTACATGATGAGAAAAGATGAATCCCTGTGTC
TGTCTTCTCCTGCGAAGGGGCTGCAGGCACCCCGAGGCCTGCTGGAGAACCAGGCCTGGGTTACTCAGTT
TGTGCAGAAGAAAGAAGAGAGGGACCTGGTGGACCGACTAAAGGCGGAGCAGGCCAGGAGGAAGCAGCGA
GAAGAACCGCTGCAGCAGCTGCAGCACAGGGTGCAGCTCAAGTATGCAGCCAAGCGCCTGAGGCAGGAAG
AAGAAGAAAGAGAGAATCTCTCCGCTCAGCAGGGAGATGCTAGAGACAGGCCCGGAGGCTGAGCGGCT
GGAGCAGCTGGAGTCTGGGGAGGAGGAGCTGGTCTCGCCGAATACGAGAGTGATGAGGAGAAAAAGGTG
GCGAGCAGAGTGGATGAGGATGAGGATGACCTGGAGGAAGAACACATAACTAAGATTTTACTGTAGTC
GGACACACTCCCAGCTGGCCAGTTTGTGCATGAGGTGAAGAAGAGCCCTTTGGCAAGGATGTTCCGGCT
GGTCTCCCTTGGCTCCCGCAGAACCTTTGTGTAATGAAGACGTGAAAAGCCTAGGTTCTGTGCAGCTT
ATCAACGACCGCTGTGTGGACATGCAGAGAAGCAGGCACGAGAAGAAGAAGGAGCTGAGGAGGAGAAGC
CAAAGAGGAGGAGGCAGGAGAAGCAGGCAGCCTGCCCTTCTACAACCAGCAGATGGGCCTTCTCCG
GGATGAGGCCCTGGCAGAGGTGAAGGACATGGAGCAGCTGCTGGCCCTTGGGAAGGAGGCCCGGGCTGT
CCCTATTACGGGAGCCGCTTGGCATCCCTGCAGCCAGCTGGTGGTGTGCCCTATCAGATGCTGCTGC
ATGCGGCCACTCGGCAGGCCCGGGCATCCGGCTGCAGGACCAGGTGGTATCATCGACGAGGCCACAA
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CCTGTCTGCAGTACGTGGAGCGATAACGGGAAGCGTTTGAAGGCCAAGAACCTGATGTACTGACAGAGA
TCCTGTATTTGCTGGAGAAATTCGTGGCTGTGCTAGGGGGGAACATTAAGCAAAATCCCAATACACAGAG
TCTGTACAGACAGGACGGAGCTGAAGACCATCAACGACTTTCTCTCCAGAGCCAGATCGACAACATC
AACCTGTTCAAGGTGCAGCGATACTGTGAGAAGAGCATGATCAGCAGAAAGCTCTTTGGATTCACTGAAC
GGTACGGAGCAGTGTTCATCCCGGAGCAGCCAAACTGGCTGGGTTTCAGCAATTCCTGCAGAGCCT
GCAGCCCAGGACGACTGAAGCTTTGCAGCCCCTGCAGACGAGAGTCAGGCCAGCACCCCTGCGACCAGCT
TCTCCACTGATGCACATCCAAGGCTTCTGGCAGCTCTCACTACGGCCAACCAGGACGGCAGGGTCAATCC
TGAGCCGCCAAGGCAGCCTCAGTCAGAGCACCTGAAGTTTTTGTCTCTGAATCCAGCTGTGCATTTGC
CCAAGTGGTGAAGGAATGCCGGCAGTGGTCATTGCGGGGGTACCATGCAGCCGGTGTCTGACTCCGG
CAGCAGCTGTGGCCTGTGCCGGGTGGAAGCTGAGCGCGTGGTGGAGTTTTCTGTGGTACGTGATCC
CTCCAGACAACATCCTGCCCTCGTCATCTGCAGCGGGATCTCCAACCAGCCGCTGGAATTCACGTTCCA
GAAAAGAGAGCTGCCTCAGATGATGGACGAGGTGGGTCGCATTCTCTGTAACCTGTGCGGTGTGGTTCCT
GGAGGGGTGGTCTGTTTCTTCCCCTCTACGAGTACCTGCGCCAGGTCCATGCCACTGGGAGAAGGGTG
GCCTGTGGGCCGTCTGGCTGCCAGGAAGAAGATATCCAGGAACCTAAGAGCGCACACCAGGTGGAGCA
GGTGTCTGTGGCATAATCCAGGTGCATCCAGGCCTGTGGCCAGGAGAGAGGCCAGGTGACAGGGGCCCTG
CTCCTCTCTGTGGTTGGAGGAAAGATGAGTGAAGGGATCAACTTCTCTGACAACCTAGGCCGGTGTGTG
TGATGGTGGGCATGCCCTTCCCCAACATCAGTCTGCAGAGCTGCAGGAGAAGATGGCCTACTTGGATCA
AACCTTCCCAGAGCCCCGGCCAGGCACCCCAAGGGAAGGCTCTGGTGGAGAACCTGTGCATGAAGGCC
GTCAACCAGTCCATAGGCAGGGCCATCAGGCACCAAGAAGGATTTTGCAGCGTAGTGCTCTGGACCAGC
GATATGCCCGGCCCTGTCTGGCCAAGCTGCCGGCCTGGATCCGAGCCCGTGTGGAGGTCAAAGCTAC
CTTTGGCCCCGCCATTGCTGCTGTGCAGAAGTTTACCAGGAGAAGTCCGGCTCTTCTGA
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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_030653 unedited CACTGAGGGGACCCGCCAGTTTCTAACTCAGTGGCGTTTGCCCTGATTCCCGGGGCTGG CTTTCAGCGTAGCAATTCGCCGGCAAGAAGGTGAGCGCAGTGTGTGGCAGCAGAG CTCCTTAGGACGAGGAGCAGCGGGACGAGGAAGGGCAGACTGGTAAATCGCAAACCTGGG CGTCTGTTCCGGCGCCGACCCCTATTTGCAAAGGTCCATGGCTAATGAAACACAGAAGG TTGGTGCCATCCATTTTCTTTTCCCTTACACCCTATTCCATCCAGGAAGACTTCATGG CAGAGCTGTACCGGGTTTTGGAGGCTGGCAAGATTGGGATATTTGAGAGTCCAACCTGGCA CTGGGAAGTCCTTAAGTCTTATTTGTGGGGCCCTCTTTGGCTCCGTGACTTTGAACAGA AGAAGCGTGAAGAAGAGGCACGACTCCTTGAAACTGGAAGTGGCCCTTACATGATGAGA AAGATGAATCCCTGTGTCTGTCTTCTTCTGCGAAGGGGCTGCAGGCACCCCGAGGCCTG CTGGAGAACC GGCTGGTTACTCAGTTTGTGCAAGAAAGAAGAGAGGGGACCTGGTGG ACCGACTAAAGGCGGAGCAGGCCAGGAAGGAAGCAGCGAGAAGAAGCCTGCAGCAGCTG CAGCACAGGGTGCAGCTCAAGTATGCAGCAAGCGCTGAGGCAGGAAGAAGAAAAGAG AGAATCTNCTNCGCTCAACAGGANATGCTAAANACAGGCCCGGAGGCTGACCGGCTGG ACAACTTGGAGTCTGGGGAGGAGGGAACGGTCTCNCGGATAACNAAGTGATGAGGAAAA AAAGGGGCGACCCAATGG</p> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_030653 unedited GCACCTTTTCTTTAAGGTCTATAGCTGTGCAGGCTGCAAACATCTGGGCATCAGTGACT TTCCTCTGCCCCGTTTGTCCCTGATGGTGGCAGAAGATCCCAGCTGACCACAGCCCT TTCTCTGGGGTACAGAGGAGAAGACAGGCGCAGTCAGCAGGGGCAGCTGTTGCACGTGGG AGGGATATTTCCACAGGAACAAGGTCTCCGTGATGACACGGGGTCTCTATAGTCATG TTGAGAGCCTAACGGTCTTGGCATAATTGCTGTTGTCGGGGTAGAAGGTGCTTGCAGT TTGCTCAAGCCGGTTCGAGAGGGAGGGAGGTGCCATACCACTTGGACGAACTGGCAGGAAT CCATGGATACAAATTCACGCAGGGCTGTGGGACAGGATAGGGATCACGGCCTTCTACTGA ACGAGTGCCTTACGACCGACGCCCGGAAGGCGATTAGCCCTGGGCCGGACCCCTGCGG CCATGGACCATCTTAAATGAGACCCCATAGTGAGCTTTCCCGGCACCTCTCAACCTTT GTTCTTTACGCGCCACCGCCATCGGCCTGCCCATCTCGCCTTTCTACACCGGGGCCAC GCCGGTCATGCACCCGTGTTCCGCACATTCTCCACCCTCTGCTATTCCACCATGGACC TCGTCTTTTCTTCTGCCCTCCACGTTATCTTCTTTTACCACATCCGCCCGTCCCTGCA CCCCCCATCCCTGCACCTCTCGTTTTTTCTTTCCCCACCTCCCCCGTACCTCAC CTCCTCCTTTCCCGGCATATTTTGCCTCCCCCCCCGTTTTGTCTCCCTCTTCTCTCA CGTCCCCTTCTATTTCCATACCAACCGCCCCCTTCCCCCTACGGGTTGCGTCCCT TTGCCCTCCCTTTTCCNTTTTGTCCCGCCCCCTTCCCTTCGCCGCTTTCTT</p> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_030653 |
| Insert Size: | 4000 bp |
| OTI Disclaimer: | 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). |
| 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). |

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| Reconstitution Method: | <ol style="list-style-type: none">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: | <u>NM_030653.2</u> , <u>NP_085911.1</u> |
| RefSeq Size: | 3875 bp |
| RefSeq ORF: | 2721 bp |
| Locus ID: | 1663 |
| Cytogenetics: | 12p11.21 |
| Domains: | DEXDc2, HELICc2 |
| Protein Families: | Stem cell - Pluripotency |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (1) uses an alternate splice junction at a coding exon compared to variant 3, that results in a frameshift. The resulting isoform (1) is shorter and has a distinct C-terminus compared to isoform 3.</p> |