

Product datasheet for **SC108813**

DDX21 (NM_004728) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX21 (NM_004728) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDX21
Synonyms:	GUA; GURDB; RH-II/GU; RH-II/GuA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_004728, the custom clone sequence may differ by one or more nucleotides

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ATGCCGGGAAAACCCGTAGTGACGCTGGTTTGGAAATCAGACACCGCAATGAAAAAGGGGAGACACTGC
GAAAGCAAACCGAGGAGAAAAGAAAAAGAGAAGCCAAAATCTGATAAGACTGAAGAGATAGCAGAAGA
GGAAGAAAACCTGTTTTCCCAAAGCTAAACAAGTTAAAAAGAAAGCAGAGCCTTCTGAAGTTGACATGAAT
TCTCCTAAATCCAAAAAGGCAAAAAAGAAAGAGGAGCCATCTCAAAATGACATTTCTCTAAAAACAAAA
GTTTGAGAAAGAAAAAGGAGCCATTGAAAAGAAAGTGGTTTTCTCTAAAAACAAAAAAGTGACAAAAAA
TGAGGAGCCTTCTGAGGAAGAAATAGATGCTCCTAAGCCCAAGAAGATGAAGAAAAGAAAGGAAATGAAT
GGAGAACTAGAGAGAAAAGCCCAAACGAAGAATGGATTTCTCATCTGAACCGGACTGTAACCCCA
GTGAAGCTGCCAGTGAAGAAAGTAACAGTGAGATAGAGCAGGAAATACCTGTGGAACAAAAAGAAGGCGC
TTTCTCTAATTTCCCATATCTGAAGAACTATTAACCTTCTCAAAGGCCGAGGAGTGACCTTCTATTT
CCTATACAAGCAAAGACATTCATCATGTTTACAGCGGGAAGGACTTAATTGCACAGGCACGGACAGGAA
CTGGGAAGACATTCTCCTTTGCCATCCCTTTGATTGAGAACTTCATGGGGAAGTCAAGACAGGAAAGAG
AGGCCGTGCCCTCAGGTACTGGTTCCTGCACCTACAAGAGAGTTGGCAAATCAAGTAAGCAAAGACTTC
AGTGACATCACA AAAAGCTGTCAGTGGCTTGTTTTTATGGTGGAACTCCCTATGGAGGTCAATTTGAAC
GCATGAGGAATGGGATTGATATCCTGGTTGGAACACCAGGTGCTATCAAAGACCACATACAGAATGGCAA
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GGACCTGATTGGTAAAAAGACTCAGAAAACGGCAATAACTGTGGAGCATCTGGCTATTAAGTGCCACTGG
ACTCAGAGGGCAGCAGTTATTGGGGATGTCATCCGAGTATATAGTGGTCATCAAGGACGCATATCATCT
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GCATGGAGACATTCCACAGAAGCAAAGGAAATCACCCCTGAAAGTTTTAGAAATGGTAGTTTTGGAGTT
TTGGTGGCAACCAATGTTGCTGCACGTGGGTTAGACATCCCTGAGGTTGATTTGGTTATACAAAGCTCTC
CACCAAAGGATGTAGAGTCTACATTTCATCGATCCGGGCGGACAGGCAGAGCTGGAAGGACGGGGGTGTG
CATCTGCTTTTATCAGCACAAGGAAGAATATCAGTTAGTACAAGTGGAGCAAAAAGCGGGAATTAAGTTC
AAACGAATAGGTGTTCTTCTGCAACAGAAATAATAAAAAGCTTCCAGCAAAGATGCCATCAGGCTTTTGG
ATTCCGTGCTCCCACTGCCATTAGTCACTTCAAACAATCAGCTGAGAAGCTGATAGAGGAGAAGGGAGC
TGTGGAAGCTCTGGCAGCAGCACTGGCCATATTTCAAGTGCCAGTCCGTAGACCAGCGCTCCTTGATC
AACTCAAATGTGGTTTTGTGACCATGATCTTGCAGTGCATTAATGAAATGCCAAATATTAGTTATGCTT
GGAAAGAACTTAAGAGCAGCTGGGCGAGGAGATTGATTCAAAAGTGAAGGGAATGGTTTTTCTCAAAGG
AAAGCTGGGTGTTTGCTTTGATGTACCTACCGCATCAGTAACAGAAATACAGGAGAAATGGCATGATTCA
CGACGCTGGCAGCTCTCTGTGGCCACAGAGCAACCAGAACTGGAAGGACCACGGGAAGGATATGGAGGCT
TCAGGGGACAGCGGAAGGCAGTCGAGGCTTCAGGGGACAGCGGGACGGAAACAGAAGATTCAGAGGACA
CGGGGAAGGCAGTAGAGGCCCGAGAGGACAGCGATCAGGAGGTGGCAACAAAAGTAACAGATCCAAAAAC
AAAGGCCAGAAGCGGAGTTTCAGTAAAGCATTGGTCAATAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004728 unedited</p> <pre> GTCAAATGTTGTATACGACTCCTATAGGCGGCCGCGAAATTCTCACGAGGTTGAGAAGAC CGGTGGCCTGGGCAACCTGCGCTGAAATGCCGGGAAAACCTCCGTAGTGACGCTGGTTTG GAATCAGACACCGCAATGAAAAAAGGGGAGACTGCGAAAGCAAACCGAGGAGAAAGAG AAAAAAGAGAAGCCAAATCTGATAAGACTGAAGAGATAGCAAAAGAGGAAGAACTGTT TTCCCCAAAGCTAAACAAGTTAAAAAGAAAGCAGAGCCTTCTGAAGTTGACATGAATTTCT CCTAAATCCAAAAAGGCAAAAAAGAAAGAGGAGCCATCTCAAAATGACATTTCTCCTAAA ACCAAAAGTTTGAGAAAGAAAAAGGAGCCATTGAAAAGAAAGTGGTTTCTTCTAAAACC AAAAAAGTGACAAAAATGAGGAGCCTTCTGAGGAAGAAATAGATGCTCCTAAGCCCAAG AAGATGAAGAAAGAAAAGGAAATGAATGGAGAACTAGAGAGAAAAGCCCAAACTGAAG AATGGATTTCTCATCTGAACCGGACTGTAAACCCAGTGAAGCTGCCAGTGAAGAAAGT AACAGTGAGATAGAGCAGGAAATACCTGTGAACAAAAAGAGGCGCTTTCTCTAATTTT CCCANTCTAAAGAACTATTAACCTTCTCAAGGCGGAGGAGTGACCTTCTATTTCC TATACNAGCAAAGACATTCCATCATGTTTACAGCGNGAAAGACTTAATTGCACAGGCAC GGACAGGAACTGGGAAGACATTCTNCTTGGCCATCCTTTTGATTGAGAACTNCATGGNG AACTGCAGACAGGAAGAAANAGCCGTGCCCTCAGGTACTGGGTCTGCACTACNNAAAAA GTTGCAAATCAGTAGCAAGAACTTCGTGACTACAAAAACTGCATGGGCTGTTTTATAGG GG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004728 unedited</p> <pre> TTGGCCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTACAAACT CTTGAGCAATGCTAATCTGCGCCCTTACTCCCTTAAGTCTTCTGGTAAATAATGTTA ATCTTCCAATAGGAAGAAGTGGAGTACATTACCATTTAAGCACCATTTATCCAGCCTACT TACAAATAAAGCTATGGAGCCACCTTATACATGTGAAATTCCTTAAAACCTGGCTTTCT ATTAATAATGACTTTTATATACTATCTATGAAGAATCACTAAAGCATGAATCACCTT ATAATGAGAAGCTAAAAATGTATCAAAACGAACATAAGTATAGGTAATCCACATCAAAAC TACTACATCTTCCAAGCTAGAGCATACACTGGTATAAACTGTATTACAACCCAGATTAG TTTGAAATCTTGTTCAAAACATTGCTCAGTATTAAGTCTCAGTAGACAAATAATAGGAC CACATGAGAAACTGTTTCGGCAGGTGGCTGAGGAAACCTTAACTTCAAAGGCTCAAAGTG GTCTCCAGAGACTGTTACACTCCCTTAGGTATTTATTTTCAGGGAAGGACACTATTAAGG GACACTTTTGAGTATAAAGACAGGTGAACTCACAAAGTATAGGCAGATACATGCTTGATT TTATCTTCTAATCTACCAGATATACATTAGAAATAAAATGGTATGAATTCATACCCCTT TCAAAAGGAAAAACTGATGAAGTAAACAATAAAGTTTTAAATGATCATGATCAGATGAAAT AATTTAATGAAGCTTGTCTGTGTCTGAAAAACACAAGTACTTGGCAAGGGTCAAAGGGAG CCCAAGCGCTTTTAACTTGCATGAAAAAAGTTAAGTCTATTTGCCAACTCATTCTTTTT GGCATAAAAACTCATTCCATTATGACCAAGCTTTATGAAACCCCTTTGGGCTGTTT GGAATC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004728
Insert Size:	3410 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).

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:	NM_004728.2 , NP_004719.2
RefSeq Size:	4153 bp
RefSeq ORF:	2352 bp
Locus ID:	9188
UniProt ID:	Q9NR30
Cytogenetics:	10q22.1
Domains:	DEAD, helicase_C
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 antigen recognized by autoimmune antibodies from a patient with watermelon stomach disease. This protein unwinds double-stranded RNA, folds single-stranded RNA, and may play important roles in ribosomal RNA biogenesis, RNA editing, RNA transport, and general transcription. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>