

Product datasheet for **SC320213**

DDX50 (NM_024045) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX50 (NM_024045) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDX50
Synonyms:	GU2; GUB; mcdrh; RH-II/GuB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_024045.1
 GCATGGCCAAGGCCGGCGGCCCTTGCCCCGCTTCCCTTTCACGCTGTCGCTGCCCGT
 AGGTGGTTGTGGCCACTGTGCCGGAGGGAGGCCGGTGGCCAGTAATGCCTGGGAAAC
 TCCTCTGGGGGACATTATGGAGCTGGAAGCACCTTGGAGGAGTCCGAGAGCCAGAAGA
 AGGAGAGGCCAAAAGAGTGACAGAAGGAAGTCAAGGCACCATTATGACTCGGATGAGAAAT
 CAGAAACAAGAGAAAATGGTGTACAGATGACCTGGATGCTCCCAAGGCCAAAAAATCTA
 AAATGAAAGAGAAGCTAAATGGAGACACTGAAGAAGGATTTAATAGACTTTCAGATGAAT
 TCTCCAAATCTCATAAGTCAAGAAGAAAAGATCTACCAAATGGAGATATAGATGAATATG
 AAAAAAATCAAAGCGAGTATCATCTTTAGATACTTCTACTCATAAATCAAGTGATAATA
 AACTAGAGGAGACCTTAACACGTGAACAGAAAAGAGCCTTCTCCAATTTTCTATTT
 CTGAAGAGACTATAAAGCTTCTGAAAGGTGCGAGGGTAACATATCTTTTCTATTCAAG
 TTAAGACCTTTGGTCTGTATATGAAGGAAAAGATTTAATAGCTCAAGCACGGACAGGAA
 CAGGAAAGACATTCTCTTTGCCATCCCCTTAATTGAAAGACTCCAAAGAAATCAAGAAA
 CAATTAAGAAAAGCCGCTCACCAAAGGTACTTGTCTTTGGTCCAAACAAGGGAAGTGGCAA
 ACCAAGTAGCCAAAGACTTCAAAGATATAACTAGGAAACTCAGCGTGGCGTGTCTTTATG
 GTGGAACATCATATCAAAGCCAAATTAATCATATTCGAAATGGTATTGACATCTTGGTTG
 GAACACCTGGTCTGATCAAAGACCATCTGCAGAGTGGCCGATTGGATCTTTCTAAACTGC
 GACATGTTGTGCTTGATGAAGTGGATCAGATGTTAGATTTAGGTTTCGCTGAACAAGTTG
 AAGATATTATTCATGAATCCTACAAAAGTACTTCTGAAGACAATCCTCAGACTTTACTTT
 TTTCTGCAACTTGCCACAGTGGGTATACAAAAGTTGCAAAAAAATACATGAAATCCAGAT
 ATGAACAGTTGACCTTGTGGAAAAATGACTCAAAGGCTGCAACTACTGTGGAACATT
 TGGCCATCCAGTGCATTGGTCTCAGAGGCCAGCAGTTATTGGAGATGTCCTTCAAGTCT
 ACAGTGGTCTGAAGGGAGGGCTATTATTTTCTGTGAGACCAAGAAGAATGTAAGTAAA
 TGGCCATGAATCCACACATAAAAACAGAATGCCAGTGTTCATGAGGACATTGCACAGT
 CACAAAGAGAAATTACACTAAAAGGCTTCAAGAGAGGTAGTTTTAAAGTTTTGGTGGCAA
 CCAATGTGGTGGCCGTTGGTGGTGGACATTCCTGAAGTTGACCTGGTATTCAAAGTTCTC
 CTCCTCAGGATGTTGAGTCTATATCCATCGCTCTGGACGCACAGGTAGAGCTGGACGGA
 CAGGGATTGTATATGTTTTATCAACCAAGAGAAAGAGGTCAACTAAGATATGTGGAAC
 AAAAGCAGGAATTACTTTAAACGTGTAGGTGTTCTTCTACAATGGATTTAGTTAAAT
 CTAAGCATGGATGCCATCAGGTCTCTGGCTCCGTTTCTTATGCTGCTGTTGATTTTT
 TCCGACCATCAGCTCAGAGACTGATAGAAGAGAAAGGTGCAGTGGATGCATTGGCTGCAG
 CTTTAGCCACATTTCTGGTGCATCAAGCTTTGAACCACGATCTTTGATCACCTCTGATA
 AGGGGTTTGTGACCATGACTCTGAAAAGCCTAGAGGAAATACAGGATGTCAGCTGTGCTT
 GGAAAGAACTTAACAGAAAGCTGAGTAGTAATGCAGTGTCTCAGATTACCAGAATGTGCC
 TCCTGAAAGGAAATATGGGTGTTTGGCTTTGATGTTCTTCAACTGAGTCAGAAAGGTTAC
 AGGCAGAGTGGCATGATCCGACTGGATACTCTCAGTGCAGCCAAATACCTGAAATG
 AAGAATATTATGATGGAAACACATCTTCTAATTCAGACAGAGGAGTGGCTGGTCAAGTG
 GTCGATCAGGCCGGTCAAGCCGGTCAAGTGGTTCGATCTGGCGGCCGGTCAAGTACAGAG
 ATCGACAAGGAAGTCGCTCAGGAAGTCGACAAGATGGTAGAAGACGAAGTGGGAATAGAA
 ATCGATCAAGAAGTGGGGCCACAAACGGAGTTTGAAGTGAAGTATTTGATAGTTAATCTA
 CCAAGTGTGAGCTTGCCTATTTCTGCCTAATCATGTACATTATCCACCAAAAATAGGTCA
 TCATAGTTGAGGTATGTGCTGCTATTTGCAAAGAAGTTGGTTCGATTTTTTTAAAAAGT
 ATTTACAAAGAATGGAACAAATCTACTTATCCAGTTATACCTTTGAATAAAAAAACCTCC
 TTTTATTGCTCTTTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_024045

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_024045.1 , NP_076950.1
RefSeq Size:	2575 bp
RefSeq ORF:	2214 bp
Locus ID:	79009
UniProt ID:	Q9BQ39
Cytogenetics:	10q22.1
Domains:	DEAD, helicase_C
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 DEAD box protein family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box enzyme that may be involved in ribosomal RNA synthesis or processing. This gene and DDX21, also called RH-II/GuA, have similar genomic structures and are in tandem orientation on chromosome 10, suggesting that the two genes arose by gene duplication in evolution. This gene has pseudogenes on chromosomes 2, 3 and 4. Alternative splicing of this gene generates multiple transcript variants, but the full length nature of all the other variants but one has not been defined. [provided by RefSeq, Jul 2008]