

## Product datasheet for **SC117398**

### DDX6 (NM\_004397) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DDX6 (NM_004397) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDX6
Synonyms:	HLR2; IDDILF; P54; RCK; Rck/p54
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC117398 sequence for NM\_004397 edited (data generated by NextGen Sequencing)

```
ATGAGCACGGCCAGAACAGAGAACCCTGTTATAATGGGTCTGTCCAGTCAAAATGGTCAG
CTGAGAGGCCCTGTGAAACCCACTGGTGGCCCTGGAGGAGGGGGCACACAGACACAGCAA
CAGATGAACCAGCTGAAAAACACCAACAATCAATAATGGCACTCAGCAGCAAGCACAG
AGTATGACCACCCTATTAACCTGGTGATGACTGGAAAAAGACTTTAAAACTCCCTCCA
AAGGATCTAAGAATCAAAACTTCGGATGTGACCTCCACAAAAGGAAATGAGTTTGAAGAT
TACTGTTTTGAAACGGGAGTTACTGATGGGAATTTTTGAAATGGGCTGGGAAAAGCCATCT
CCTATTACAGGAGGAGCATTCCATTGCTTTATCTGGTAGGGATATCTTAGCTAGAGCA
AAAAATGGAACAGGCAAGAGCGGTGCTACCTCATTCCCTTACTTGAACGGCTAGACCTG
AAGAAGGACAATATACAAGCAATGGTGATTGTTCCCACTAGAGAAGTTGCTCTACAGGTC
AGTCAAATTTGCATCCAGGTGAGCAACACATGGGAGGGGCCAAAGTGATGGCAACCACA
GGAGGAACCAATTTACGAGATGACATAATGAGGCTTGATGATACAGTGCACGTGGTGATT
GCTACCCCTGGGAGAATCCTGGATCTTATTAAGAAAGGAGTAGCAAAGGTTGATCATGTC
CAGATGATAGTATTGGATGAGGCAGATAAGTTGCTGTCACAGGATTTTGTGCAGATAATG
GAGGATATTATTCTACGCTACCTAAAAACAGGCAGATTTTACTATATTCCGCTACTTTC
CCTCTTAGTGACAGAAGTTCATGAATCCCATTTCAGAAAACCCATGAGATTAACCTG
ATGGAGGAACTAACTCTGAAGGGAGTAACCCAGTACTACGCATATGTAAGTGAAGCCAA
AAAGTACACTGCCTCAACACACTTTTCTCCAGGCTCAGATAAACCAAGTCGATCATTTTC
TGTAACCTCTCAGCGAGTTGAATTGCTAGCCAAGAAGATTTCTCAACTGGGTTATTCT
TGCTTCTATATTCATGCTAAAATGAGGCAGGAACATCGAAATCGTGTATTTTCATGATTTT
CGAAATGGCTTATGCCGAATCTTGTGGTACTGATCTGTTTACCGAGGTATTGATATA
CAAGCTGTGAATGTGGTAATAAACTTTGATTTCCCAAAGCTGGCAGAGACCTATCTCCAT
CGTATTGGAAGATCAGGTCGCTTTGGTCACTTTGGCTTAGCCATCAACTGATCACATAT
GATGATCGCTTCAACCTGAAAAGTATTGAGGAGCAGCTGGGAACAGAAATTAACCTATT
CCGAGCAACATTGATAAGAGCCTGTATGTGGCAGAATACCACAGCGAGCCTGTAGAAGAT
GAGAAACCTTAA
```

Clone variation with respect to NM\_004397.4

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_004397 unedited

```
ATCAAGTTATTATAGGGCGGCCGGAATTCGGCACGAGGGCGACTTCGGCGGCGCCACGA
GAGCGGGCAGCGGAGGAGATTGACGTGAGTGAATTCAGATATAACTCAAGCTTGTAGAG
GGCTTTTTAAAAATAAAAAGTTGATTCGGTCAAGAGAGCAAGTTACTGTGCTTACCGT
TCAGAGACTTACAGGTGCTTGCCTGCATTGCAATAAAGGACTCATTTATTGAGCAAGACT
TATATTTATCTCTTCATTTTGGAGAGCCTAATAAACTGTTATTACAGTTTCTCTACTGAC
TTTCAAAAGTTTTGAAGTTTAAAAGACCTTTGCAATTAACAGCATGAGCAGCGCCAGA
ACAGAGAACCCTGTTATAATGGGTCTGTCCAGTCAAAATGGTCAGCTGAGAGCCCTGTG
AAACCCACTGGTGGCCCTGGAGGAGGGGGCACACAGACACAGCAACAGATGAACCAAGCTG
AAAAACACCAACAATCAATAATGGCACTCAGCAGCAAGCACAGAGTATGACCACCACT
ATTTAAACCTGGTGATGACTGAAAAAGACTTTAAAACTCCCTCAAAGGATCTAAGAATC
AAACTCCGATGTGACCCCTCCACAAAGGAAATGAGTTTGAAGATTACTGTTTGAACGGA
AGTTACTGATGGGAATTTTTGAAATGGGCTGGGAAAAGCCCTCTCCTATTGACANGAAA
GCATTCCTATTGTTTATCTGGTAGGGATATCTTAGCTAGAGCAAAAAAATGGACCAGGCA
GAAGCGGGGCTACCTTAATCCCTTAATTGAACGGGTTAGACCTGAAGAAGGACAATTTA
CCAGCCAATGTTGATTGTGCCCTTAAAGACTTTGTTTTAAAGTCAATCCAAAATTGC
ATTCCAGTCACCACACCCTTGTGGAAGGGGCCAAGTGGAGGCAN
```

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_004397 unedited TTTGGACGCGCCGCATTCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTGTTTTTTAAATA CATGTATTTACAGTGCGGATGAACTGCAGTTGCATATCAACTCCTCCCAAAAAGAAAA AAAAATGGTGTTAACATTACTAGTGAGTTTCAACTTCTAGCCCTGGGCTCGAGTACTGG GTAGAAAGGGAAGAGACTTCAACCTGAAACCAAAATAAGAAGACATTTTTACAAGAAAA AGAAAAAAAAACGAAAGAAAGATTACTATTGTTGATTCTCGGGCTGTGTCTAAAAGA TGATATTTCTGAATGGTCTCATACCATAAGGCACTTCGCACAAATAAGTAATAAGCTCTTC AGGCTTAAAAACGGATGAGGAATCAGGGAGAAGTTGAAATGCACGAGAGTCAGCTGTTG GAGAATTTTGAATCATTGACAAGCTTGTGTTCATTAAGATTCTTCTTTTTAGGGT TTCTCCCCTTCTTTTTTCTTTTCTTCTCCTTGTCCCCTTTCCCAGAAACAATTTCTTA AAAACCAGCAGTTAGTGCACAACTAATGTTTCAGTCAGCACACAGTGCAACAAGTGGAAACA AAAAGGTATATTCCTTCTTTTCCACCTTTCCCTTACCAGTTAAAAAAGAAAAAGCCC GAGCTCTCTTTAAGTCTTCATAGCTCCAACATAAAGATGAACAACCCACAGAGACG ACCTTTCCCAATCGATGCGCCACAGATCCAACGAGCGCTTGTGATTGCGCAAACC CTGCTTGTCAAGTTCCTCTATTCTTTACAGCGCCCGTTGGGCATTCCCGCCACATACC GGTTCCTCATAATGCGGCCCGAAAAAGCGCTAATTTTTGTTCCAGCTGGCCCTCCATACT TTTTCAGCGTGGAGCGGATCCTATTTCGCGAACACAGTGTAGGGCTAATCCCGCAGACCCAA GCGCCCTGATCTCCACTCCCACGAAATACGCTCCCACCCCT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004397
<b>Insert Size:</b>	2540 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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_004397.3</a> , <a href="#">NP_004388.1</a>
<b>RefSeq Size:</b>	4180 bp
<b>RefSeq ORF:</b>	1419 bp
<b>Locus ID:</b>	1656
<b>UniProt ID:</b>	<a href="#">P26196</a>
<b>Cytogenetics:</b>	11q23.3
<b>Domains:</b>	DEAD, helicase_C

**Protein Pathways:** RNA degradation

**Gene Summary:** This gene encodes a member of the DEAD box protein family. The protein is an RNA helicase found in P-bodies and stress granules, and functions in translation suppression and mRNA degradation. It is required for microRNA-induced gene silencing. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Mar 2012]  
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.