

## Product datasheet for **SC204998**

### **DHX58 (NM\_024119) Human 3' UTR Clone**

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** DHX58 (NM\_024119) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** DHX58  
**Synonyms:** D11LGP2; D11lgp2e; LGP2; RLR-3  
**ACCN:** NM\_024119  
**Insert Size:** 380 bp  
**Insert Sequence:** >SC204998 3'UTR clone of NM\_024119

The sequence shown below is from the reference sequence of NM\_024119. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GAGAATTGTTCGGACCTCTCCCTGGACTGACACCTCATTGCTGCAGTGCCCGGTTTGGGCTGTAGGGG
GCGGGAGAGTCTGCAGCAGACTCCAGGCCCTCCTTCTGAATCATCAGCTGTGGGCATCAGGCCACC
AGCCACACAGGAGTCTGGGCACCCTGGCTTAGGCTCCCGCAATGGGAAAACAACCGAGGGCCAGAGC
TTAGTCCAGACCTACCTTGTACGCACATAGACATTTTCATATGCACTGGATGGAGTTAGGAAAAGTGG
GCAAAAAGAATTTGCCATACTGTACTCAGAATCACGACATTCCTTCCCTACCAAGGCCACTTCTATTTTT
TGAGGCTCCTCATAAAAAATAATGAAAAATGGGA
ACGCGTAAGCGGCCGCGGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
```

**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_024119.3](#)



[View online »](#)

**Summary:**

Acts as a regulator of DDX58/RIG-I and IFIH1/MDA5 mediated antiviral signaling. Cannot initiate antiviral signaling as it lacks the CARD domain required for activating MAVS/IPS1-dependent signaling events. Can have both negative and positive regulatory functions related to DDX58/RIG-I and IFIH1/MDA5 signaling and this role in regulating signaling may be complex and could probably depend on characteristics of the infecting virus or target cells, or both. Its inhibitory action on DDX58/RIG-I signaling may involve the following mechanisms: competition with DDX58/RIG-I for binding to the viral RNA, binding to DDX58/RIG-I and inhibiting its dimerization and interaction with MAVS/IPS1, competing with IKBKE in its binding to MAVS/IPS1 thereby inhibiting activation of interferon regulatory factor 3 (IRF3). Its positive regulatory role may involve unwinding or stripping nucleoproteins of viral RNA thereby facilitating their recognition by DDX58/RIG-I and IFIH1/MDA5. Involved in the innate immune response to various RNA viruses and some DNA viruses such as poxviruses, and also to the bacterial pathogen *Listeria monocytogenes*. Can bind both ssRNA and dsRNA, with a higher affinity for dsRNA. Shows a preference to 5'-triphosphorylated RNA, although it can recognize RNA lacking a 5'-triphosphate.[UniProtKB/Swiss-Prot Function]

**Locus ID:**

79132

**MW:**

13.5