

Product datasheet for TL506859V

Ddx58 Mouse shRNA Lentiviral Particle (Locus ID 230073)

Product data:

Product Type:	shRNA Lentiviral Particles
Product Name:	Ddx58 Mouse shRNA Lentiviral Particle (Locus ID 230073)
Locus ID:	230073
Synonyms:	6430573D20Rik; C330021E21; RIG-I; RLR-1
Vector:	pGFP-C-shLenti (TR30023)
Format:	Lentiviral particles
Components:	Ddx58 - Mouse shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10^7 TU/ml.
RefSeq:	NM 172689, NM 172689.1, NM 172689.2, NM 172689.3, BC027369, BC106095, BC127163, BC152540, BC167209
UniProt ID:	<u>Q6Q899</u>



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Summary:	Innate immune receptor which acts as a cytoplasmic sensor of viral nucleic acids and pla

ays a major role in sensing viral infection and in the activation of a cascade of antiviral responses including the induction of type I interferons and proinflammatory cytokines. Its ligands include: 5'-triphosphorylated ssRNA and dsRNA and short dsRNA (<1 kb in length). In addition to the 5'-triphosphate moiety, blunt-end base pairing at the 5'-end of the RNA is very essential. Overhangs at the non-triphosphorylated end of the dsRNA RNA have no major impact on its activity. A 3'overhang at the 5'triphosphate end decreases and any 5'overhang at the 5' triphosphate end abolishes its activity. Upon ligand binding it associates with mitochondria antiviral signaling protein (MAVS/IPS1) which activates the IKK-related kinases: TBK1 and IKBKE which phosphorylate interferon regulatory factors: IRF3 and IRF7 which in turn activate transcription of antiviral immunological genes, including interferons (IFNs); IFNalpha and IFN-beta. Detects both positive and negative strand RNA viruses including members of the families Paramyxoviridae: newcastle disease virus (NDV) and Sendai virus (SeV), Rhabdoviridae: vesicular stomatitis virus (VSV), Orthomyxoviridae: influenza A and B virus, Flaviviridae: Japanese encephalitis virus (JEV), hepatitis C virus (HCV), dengue virus (DENV) and west Nile virus (WNV). It also detects rotavirus and orthoreovirus. Also involved in antiviral signaling in response to viruses containing a dsDNA genome such as Epstein-Barr virus (EBV). Detects dsRNA produced from non-self dsDNA by RNA polymerase III, such as Epstein-Barr virus-encoded RNAs (EBERs). May play important roles in granulocyte production and differentiation, bacterial phagocytosis and in the regulation of cell migration. [UniProtKB/Swiss-Prot Function]

shRNA Design:These shRNA constructs were designed against multiple splice variants at this gene locus. To
be certain that your variant of interest is targeted, please contact techsupport@origene.com.If you need a special design or shRNA sequence, please utilize our custom shRNA service.

PerformanceOriGene guarantees that the sequences in the shRNA expression cassettes are verified toGuaranteed:correspond to the target gene with 100% identity. One of the four constructs at minimum are
guaranteed to produce 70% or more gene expression knock-down provided a minimum
transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to
evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly
assess knockdown, the gene expression level from the included scramble control vector must
be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

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