OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TP526477

Ddx58 (NM_172689) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 (Ddx58), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR226477 representing NM_172689 Red=Cloning site Green=Tags(s) MTAEQRQNLQAFRDYIKKILDPTYILSYMSSWLEDEEVQYIQAEKNNKGPMEAASLFLQYLLKLQSEGWF QAFLDALYHAGYCGLCEAIESWDFQKIEKLEEHRLLLRRLEPEFKATVDPNDILSELSECLINQECEEIR QIRDTKGRMAGAEKMAECLIRSDKENWPKVLQLALEKDNSKFSELWIVDKGFKRAESKADEDDGAEASSI QIFIQEEPECQNLSQNPGPPSEASSNNLHSPLKPRNYQLELALPAKKGKNTIICAPTGCGKTFVSLLICE HHLKKFPCGQKGKVVFFANQIPVYEQQATVFSRYFERLGYNIASISGATSDSVSVQHIIEDNDIIILTPQ ILVNNLNNGAIPSLSVFTLMIFDECHNTSKNHPYNQIMFRYLDHKLGESRDPLPQVVGLTASVGVGDAKT AEEAMQHICKLCAALDASVIATVRDNVAELEQVVYKPQKISRKVASRTSNTFKCIISQLMKETEKLAKDV SEELGKLFQIQNREFGTQKYEQWIVGVHKACSVFQMADKEEESRVCKALFLYTSHLRKYNDALIISEDAQ MTDALNYLKAFFHDVREAAFDETERELTRRFEEKLEELEKVSRDPSNENPKLRDLYLVLQEEYHLKPETK TILFVKTRALVDALKKWIEENPALSFLKPGILTGRGRTNRATGMTLPAQKCVLEAFRASGDNNILIATSV ADEGIDIAECNLVILYEYVGNVIKMIQTRGRGRARDSKCFLLTSSADVIEKEKANMIKEKIMNESILRLQ TWDEMKFGKTVHRIQVNEKLLRDSQHKPQPVPDKENKKLLCGKCKNFACYTADIRVVETSHYTVLGDAFK ERFVCKPHPKPKIYDNFEKKAKIFCAKQNCSHDWGIFVRYKTFEIPVIKIESFVVEDIVSGVQNRHSKWK DFHFERIQFDPAEMSV TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	106.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

View online »

Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_766277
Locus ID:	230073
UniProt ID:	Q6Q899
RefSeq Size:	4943
Cytogenetics:	4 A5
RefSeq ORF:	2778
Synonyms:	6430573D20Rik; C330021E21; RIG-I; RLR-1
Summary:	Innate immune receptor which acts as a cytoplasmic sensor of viral nucleic acids and plays 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); IFN-alpha 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]