Recombinant Full Length Human DICER1 Protein, C-Flag-tagged

Cat. No. DICER1-1120HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DICER1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a protein possessing an RNA helicase motif containing a DEXH box in its amino terminus and an RNA motif in the carboxy terminus. The encoded protein functions as a ribonuclease and is required by the RNA interference and small temporal RNA (stRNA) pathways to produce the active small RNA component that represses gene expression. This protein also acts as a strong antiviral agent with activity against RNA viruses, including the Zika and SARS-CoV-2 viruses. Alternative splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	218.5 kDa
AA Sequence	MKSPALQPLSMAGLQLMTPASSPMGPFFGLPWQQEAIHDNIYTPRKYQVELLEAAL DHNTIVCLNTGSGK TFIAVLLTKELSYQIRGDFSRNGKRTVFLVNSANQVAQQVSAV RTHSDLKVGEYSNLEVNASWTKERWNQ EFTKHQVLIMTCYVALNVLKNGYLSLSDI NLLVFDECHLAILDHPYREIMKLCENCPSCPRILGLTASIL NGKCDPEELEEKIQKLEK ILKSNAETATDLVVLDRYTSQPCEIVVDCGPFTDRSGLYERLLMELEEALNF INDCNI

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

SVHSKERDSTLISKQILSDCRAVLVVLGPWCADKVAGMMVRELQKYIKHEQEELHRK
FLLFTDT FLRKIHALCEEHFSPASLDLKFVTPKVIKLLEILRKYKPYERQQFESVEWYN
NRNQDNYVSWSDSEDDDE DEEIEEKEKPETNFPSPFTNILCGIIFVERRYTAVVLNR
LIKEAGKQDPELAYISSNFITGHGIGKNQPR NKQMEAEFRKQEEVLRKFRAHETNLLI
ATSIVEEGVDIPKCNLVVRFDLPTEYRSYVQSKGRARAPISNY IMLADTDKIKSFEED
LKTYKAIEKILRNKCSKSVDTGETDIDPVMDDDDVFPPYVLRPDDGGPRVTINTA IGH
INRYCARLPSDPFTHLAPKCRTRELPDGTFYSTLYLPINSPLRASIVGPPMSCVRLAE
RVVALICCE KLHKIGELDDHLMPVGKETVKYEEELDLHDEEETSVPGRPGSTKRRQ
CYPKAIPECLRDSYPRPDQPCYL YVIGMVLTTPLPDELNFRRRKLYPPEDTTRCFGIL
TAKPIPQIPHFPVYTRSGEVTISIELKKSGFMLSL QMLELITRLHQYIFSHILRLEKPAL
EFKPTDADSAYCVLPLNVVNDSSTLDIDFKFMEDIEKSEARIGIP STKYTKETPFVFKL
EDYQDAVIIPRYRNFDQPHRFYVADVYTDLTPLSKFPSPEYETFAEYYKTKYNLDL T
NLNQPLLDVDHTSSRLNLLTPRHLNQKGKALPLSSAEKRKAKWESLQNKQILVPELC
AIHPIPASLWRK AVCLPSILYRLHCLLTAEELRAQTASDAGVGVRSLPADFRYPNLDF
GWKKSIDSKSFISISNSSSAENDN YCKHSTIVPENAAHQGANRTSSLENHDQMSVN
CRTLLSESPGKLHVEVSADLTAINGLSYNQNLANGSYD LANRDFCQGNQLNYYKQE
IPVQPTTSYSIQNLYSYENQPQPSDECTLLSNKYLDGNANKSTSDGSPVMAV MPGT
TDTIQVLKGRMDSEQSPSIGYSSRTLGPNPGLILQALTLSNASDGFNLERLEMLGDS
FLKHAITTY LFCTYPDAHEGRLSYMRSKKVSNCNLYRLGKKKGLPSRMVVSIFDPPV
NWLPPGYVVNQDKSNTDKWEKD EMTKDCMLANGKLDEDYEEEDEEEESLMWRA
PKEEADYEDDFLEYDQEHIRFIDNMLMGSGAFVKKISLS PFSTTDSAYEWKMPKKS
SLGSMPFSSDFEDFDYSSWDAMCYLDPSKAVEEDDFVVGFWNPSEENCGVDTG K
QSISYDLHTEQCIADKSIADCVEALLGCYLTSCGERAAQLFLCSLGLKVLPVIKRTDRE
KALCPTRENF NSQQKNLSVSCAAASVASSRSSVLKDSEYGCLKIPPRCMFDHPDAD
KTLNHLISGFENFEKKINYRFKNK AYLLQAFTHASYHYNTITDCYQRLEFLGDAILDYL
ITKHLYEDPRQHSPGVLTDLRSALVNNTIFASLAV KYDYHKYFKAVSPELFHVIDDFV
QFQLEKNEMQGMDSELRRSEEDEEKEEDIEVPKAMGDIFESLAGAIY MDSGMSLET
VWQVYYPMMRPLIEKFSANVPRSPVRELLEMEPETAKFSPAERTYDGKVRVTVEVV
GKGKF
KGVGRSYRIAKSAAARRALRSLKANQPQVPNSTRTRPLEQKLISEEDLAANDILDYK

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

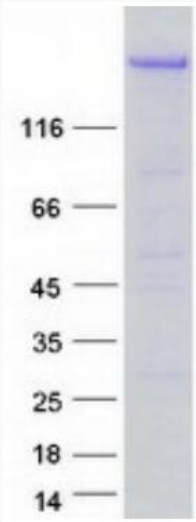
	DDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Full Length	Full L.

GENE INFORMATION

Gene Name	DICER1 dicer 1, ribonuclease III [Homo sapiens (human)]
Official Symbol	DICER1
Synonyms	DCR1; GLOW; MNG1; aviD; Dicer; HERNA; RMSE2; Dicer1e; K12H4.8-LIKE
Gene ID	23405
mRNA Refseq	NM_030621.4
Protein Refseq	NP_085124.2

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

MIM	606241
UniProt ID	Q9UPY3



Coomassie blue staining of purified DICER1 protein.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA