

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	MKSPALQPLSMAGLQLMTPASSPMGPFGLPWQQEAIHDNIYTPRKYQVELLEAAL DHNTIVCLNTGSGK TFIAVLLTKELSYQIRGDFSRNGKRTVFLVNSANQVAQQVSAV RTHSDLKVGGEYSNLEVNASWTKERWNQ EFTKHQVLMITCYVALNVLKNGYLSLSDI NLLVFDECHLAILDHPYREIMKLCENCPCPRILGLTASIL NGKCDPEELEEKIQLKLEK ILKSNAETATDLVVLDTRYTSQPCEIVVDCGPFTDRSGLYERLLMELEEALNF INDCNI

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SVHSKERDSTLISKQILSDCRAVLVVLGPWCADKVAGMMVRELQKYIKHEQEELHRK
 FLLFTDT FLRKIHALCEEHFSPASLDLKFVTPKVIKLEILRKYPYERQQFESVEWYN
 NRNQDNYVSWSDSEDDDE DEEIEEKEKPETNFPSFTNILCGIIFVERRYTAVVLNR
 LIKEAGKQDPELAYISSNFITGHGIGKNQPR NKQMEAEFRKQEEVLRKFRAHETNLLI
 ATSIVEEGVDIPKCNLVVRFDLPTTEYSYVQSKGRARAPISNY IMLADTDKIKSFEED
 LKTYKAIEKILRNKCSKSVDTGETDIDPVMDDDDVFPYVLRPDDGGPRVTINTA IGH
 INRYCARLPSPDFTHLAPKCRTRRELDPDGTFFYSTLYLPINSPLRASIVGPPMSCVRLAE
 RVVALICCE KLHKIGELDDHMPVGKETVKYEEEDLHDEEETSVPGRPGSTKRRQ
 CYPKAIPECLRDSYPRPDQPCYL YVIGMVLTTPLPDELNFRRRKLYPPEDTTRCFGIL
 TAKPIQPHPVYTRSGEVTISIELKKSGFMLS QMLELITRLHQYIFSHILRLEKPAL
 EFKPTDADSAYCVLPLNVVNDSSSTLDIDFKFMEDIEKSEARIGIP STKYTKETPFVFKL
 EDYQDAVIIPRYRNFQPHRFYVADVYDPLTPLSKFSPPEYETFAEYKTKYNLDL T
 NLNQPLLDVDHTSSRLNLLTPRHLNQGKALPLSSAEKRKAKWESLQNKQILVPELC
 AIHIPASLWRK AVCLPSILYRLHCLLTAEELRAQTASDAGVGVRSPLADFRYPNLDF
 GWKKSIDSKSFISISNSSSAENDN YCKHSTIVPENAAHQGANRTSSLENHDQMSVN
 CRTLLSESPGKLHVEVSADLTAINGLSYNQNLANGSYD LANRDFCQGNQLNYYKQE
 IPVQPTTSYSIQNLYSYENQPQPSDECTLLSNKYLDGNANKSTSDGSPVMAV MPGT
 TDTIQVLKGRMDSEQSPSIGYSSRTLGPNPGLILQALTLNASDGFNLERLEMLGDS
 FLKHAITY LFCTYPDAHEGRLSYMRSKKVSNCNLYRLGKKKGLPSRMVVSIFDPPV
 NWLPPGYVVNQDKSNTDKWEKD EMTKDCMLANGKLEDEYEEDEEEESLMWRA
 PKEEADYEDDFLEYPDQEHIRFIDNMLMGSGAFVKKISLS PFSTTDSAYEWKMPKKS
 SLGSMPSDFEDFDYSSWDAMCYLDPSKAVEEDDFVVGFWNPSEENCVDTG K
 QSISYDLHTEQCIADKSIADCVEALLGCYLTSCGERAAQLFLCSLGLKVLPIKRTDRE
 KALCPTRENF NSQQKNLSVSCAAASVASSRSSLVDKSEYGLKIPPRCMFDHPDAD
 KTLNHLISGFENFEKKINYRFKNK AYLLQAFTHASYHYNTITDCYQRLEFLGDAILYL
 ITKHLIEDPRQHSPGVLTDLRSALVNNTIFASLAV KYDYHKYFKAVSPELFHVIDDFV
 QFQLEKNEMQGMSELRRSEEDKEEDIEVPKAMGDIFESLAGAIY MDSGMSLET
 VWQVYYPMMRPLIEKFSANVPRSPVRELLEMPEPETAKFSPAERTYDGVKRVTVVEV
 GKGKF
 KGVGRSYRIAKSAAARRALRSLKANQPQVPNSTRTRPLEQKLISEEDLAANDILDYK

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	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

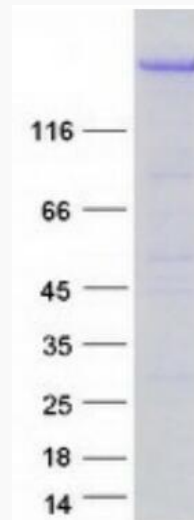
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MIM 606241

UniProt ID Q9UPY3



Coomassie blue staining of purified DICER1 protein.

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