

Product datasheet for **PH319214**

Dicer (DICER1) (NM_177438) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DICER1 MS Standard C13 and N15-labeled recombinant protein (NP_803187)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219214
Predicted MW:	218.5 kDa



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Protein Sequence: >RC219214 representing NM_177438
 Red=Cloning site Green=Tags(s)

MKSPALQPLSMAGLQLMTPASSPMGPFGLPWQQEAIHDNIYTPRKYQVELLEAALDHNTIVCLNTGSGK
 TFIAVLLTKELSYQIRGDFSRNGKRTVFLVNSANQVAQQVSAVRTHSDLKVGESYNSLEVNASWTKERWNO
 EFTKHQVLIIMTCYVALNVLKNGYLSLSDINLLVFDECHLAILDHPYREIMKLCENCPCSPRILGLTASIL
 NGKCDPEELEEKIQKLEKILKSNAETADLVLDRYTSQPCEIIVVDCGPFTRDRLYERLLMELEALNF
 INDCNISVHSKERDSTLISKQILSDCRAVLVVLGPWCADK VAGMMVRELQKYIKHEQEELHRKFLFLFTDT
 FLRKIHALLCEEHFSPASLDLKFVTPKVIKLEILRKYKPYERQQFESVEWYNNRNQDNYVSWSDSEDDDE
 DEEIEEKEKPEFNFPSPFTNILCGIIFVERRYTAVVLNRLIKEAGKQDPELAYISSNFITGHGIGKNQPR
 NKQMEAEFRKQEEVLRKFRAHETNLLIATSIIVEEGVDIPKCNLVVRFDLPTERYSYVQSKGRARAPISNY
 IMLADTDKIKSFEEDLKYKAIKILRNKCSKSVDTGETDIDPVMDDDDVFPPYVLRPDDGGPRVTINTA
 IGHINRYCARLPDPFTHLAPKCRTRRELDPGTFYSTLYLPINSPLRASIVGPPMSCVRLAERVVALICCE
 KLHKIGELDDHLMVPGKETVKYEEELDLHDEEETSVPGRPGSTKRRQCPKAIPECLRDSYPRPDQPCYL
 YVIGMVLTTPLPELNFRRRKL YPPEDTTRCFGILTAKPIPHFPVYTRSGEVTISIELKKS GFMLSL
 QMLELITRLHQYIFSHILRLEKPALEFKPTDADSAYCVLPLNVVNDSSSTLDIDFKMEDIEKSEARIGIP
 STKYTKETPFVFKLEDYQDAVIIPRYRNFDPHRFYVADVYTDLTPLSKFSPSEYETFAEYKTKYNLDL
 TNLNQPLLDVDHTSSRLNLLTPRHLNQGKALPLSSAEKRKAKWESLQNKQILVPELCAIHPIPASLWRK
 AVCLPSILYRLHCLLTAEELRAQTASDAGVGVRSPLPADFRYPNLDGFWKKSIDSKSFISISNSSSAENDN
 YCKHSTIVPENAAHQGANRTSSLENHDQMSVNCRTLLSESPGKLHVEVSADLTAINGLSYNQNLANGSYD
 LANRDFCQGNQLNYYKQEI PVQPTTSYSIQNLYSYENQPQPSDECTLLSNKYLDGNANKSTSDGSPVMAV
 MPGTTDTIQVLKGRMDSEQSPSIGYSSRTLGNPGLILQALTLNASDGFNLERLEMLGDSFLKHAITTY
 LFCYTPDAHEGRLSYMRSKKSVCNLYRLGKKGLPSRMVVSIFDPPVNWLPFGYVYNQDKSNTDKWEKD
 EMTKDCMLANGKLDDEYEEDEEEESLMWRAPKEEADYEDDFLEYDQEHIRFIDNMLMGSGAFVKKISLS
 PFSTTDSAYEWKMPKSSLSGMPFSSDFEDFDYSSWDAMCYLDPSKAVEEDDFVVGFWNPSEENCGVDTG
 KQISISYDLHTEQCIADKSIADCVEALLGCYLTSCGERAAQLFLCSLGLKVLPIKRTDREKALCPTRENF
 NSQQKNLSVSCAAASVASSRSSLVDKSEYGCLKIPPRCMFDHPDADKTLNHLISGFENFEKKINRYFKNK
 AYLLQAFTHASYHYNTITDCYQRLEFLGDAILDYLI TKHLYEDPRQHSPGVLTDLRSALVNNTIFASLAV
 KYDYHKYFKA VSPFLFHVIDDFVQFQLEKNEMQGMSELRRSEDEEKEEDIEVPKAMGDI FESLAGAIY
 MDSGMSLETVWQVYYPMMRPLIEKFSANVPRSPVRELLEMEPETAKFSPAERTYDGKVRVTVEVVGKGF
 KGVGRSYRIAKSAAARRALRSLKANQPQVPNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration: >0.05 µg/µL as determined by microplate BCA method

Labeling Method: Labeled with [U- ¹³C₆, ¹⁵N₄]-L-Arginine and [U- ¹³C₆, ¹⁵N₂]-L-Lysine

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Storage: Store at -80°C. Avoid repeated freeze-thaw cycles.

Stability: Stable for 3 months from receipt of products under proper storage and handling conditions.

RefSeq: [NP_803187](#)

RefSeq Size: 10276

RefSeq ORF: 5766

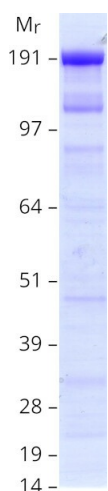
Synonyms: DCR1; Dicer; Dicer1e; GLOW; HERNA; K12H4.8-LIKE; MNG1; RMSE2

Locus ID: 23405
UniProt ID: [Q9UPY3](#)
Cytogenetics: 14q32.13

Summary: 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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2010]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified DICER1 protein (Cat# [TP319214]). The protein was produced from HEK293T cells transfected with DICER1 cDNA clone (Cat# [RC219214]) using MegaTran 2.0 (Cat# [TT210002]).