

Protein sequence for Dicer 1 from UCSC Browser. Consensus Sumo binding sites (determined with SumoPlot) are shown in red. There are 128 lysines (K) in the Dicer protein.

GenBank: AAI50288.1

>gi|152012889|gb|AAI50288.1| Dicer 1, ribonuclease type III [Homo sapiens]

MKSPALQPLSMAGLQIMTPASSPMGPFGLPWQQEAIHDNIYTPRKYQVELLEAALDHNTIVCLNTGSGK
TFIAVLLTKELSYQIRGDFSRNGKRTVFLVNSANQVAQQVSAVRTHSDLKVGEYSNLEVNASWTKERWNQ
EFTKHQVLIMTCYVALNVLKNGYLSLSLDINLLVDFECHLAILDHPYREIMKLCENCPCSPRILGLTASIL
NGKCDPEELEEKIQKLEKILKSNAETATDLVVLDRYTSQPCEIVVDCGPFTDRSGLYERLLMELEEALNF
INDCNISVHSKERDSTLISKQILSDCRAVLVVLGPWCADKAVGMMVRELQKYIKHEQEELHRKFLLFTDT
FLRKIHALCEEHFSASLDLKFVTPKVIKLEILRKYKPYERQQFESVEWYNNRNQDNYVSWSDSEDDDE
DEEIEEKEKPETNFSPFTNILCGIIFVERRYTAVVLNRLIKEAGKQDPELAYISSNFITGHGIGKNQPR
NKQMEAEFRKQEEVLRKFRAHETNLLIATSIVEEGVDIPKCNLVVRFDLPTHEYRSYVQSKGRARAPISNY
IMLADTDKIKSFEEDLKTYKAIKILRNKCSKSVDTGETDIDPVMDDDDVFPYVLRPDDGGPRVTINTA
IGHINRYCARLPSDPFTHLAPKCRTRLPDGTFFYSTLYLPINSPLRASIVGPPMSCVRLAERVVALICCE
KLHKIGELDDHLMFVGKETVKYEELDLHDEEETSVPGRPGSTKRRQCYPKAIPCELRDSYPRPDQPCYL
YVIGMVLTTPLPDELNFRRRKLYPPEDTTRCFGILTAKPIQIPHFPVYTRSGEVTISIELKKS GFMLSL
QMLELITRLHQYIFSHILRLEKPALEFKPTDADSAYCVLPLNVVNDSSSTLDIDFKFMEDIEKSEARIGIP
STKYTKETPFVFKLEDYQDAVIIPRYRNFDPHREYVADVYTDLTPLSKFSPPEYETFAEYKTKYNLDL
TNLNQPLLDVDHTSSRLNLLTPRHLNQGKALPLSSAEKRKAKWESLQNKQILVPELCAIHPIPASLWRK
AVCLPSILYRLHCLLTAEEELRAQTASDAGVGVRSPLADFRYPNLDFGWKKSIDSKSFISISNSSSAENDN
YCKHSTIVPENAAHQGANRTSSLENHDQMVNCRITLSESPGKLHVEVSADLTAINGLSYNQNLANGSYD
LANRDFCQGNQLNYYKQEI PVQPTTSYSIQNLYSYENQPQPSDECTLLSNKYLDGNANKSTSDGSPVMAV
MPGTTDTIQVLKGRMDSEQSPSIGYSSRTLGNPGLILQALTLNASDGFNLERLEMLGDSFLKHAITY
LFCTYPDAHEGRLSYMRSKKVSNCNLYRLGKKKGLPSRMVVSIFDPPVNWLPPGYVVNQDKSNTDKWEKD
EMTKDCMLANGKLEDYEEDEDEEEESLMWRAPKEEADYEDDFLEYDQEHIRFIDNMLMGSGAFVKKISLS
PFSTTDSAYEWKMPKSSSLGSMFSSDFEDFDYSSWDAMCYLDPSKAVEEDDFVVGFWNPSEENCVDTG
KQISYDLHTEQCIADKSIADCVEALLGCYLTSCGERAAQLFLCSLGLKVLVPIKRTDREKALCPTRENF
NSQQKNLSVSCAAASVASSRSSLKDEYGC LKIPPRCMFDHPDADKTLNHLISGFENFEKKINYRFKNK
AYLLQAFTHASYHYNTITDCYQRLEFLGDAILDYLIKHLIEDPRQHSPGVLTDLRSALVNNTIFASLAV
KYDYHKYFKAVSPELFHVIDDFVQFQLEKNEMQGMSELRRSEDEEKEEDIEVPKAMGDI FESLAGAIY
MDSGMSLETVWQVYYPMRPLIEKFSANVPRSPVRELLEMEPETAKFSPAERTYDGKVRVTVEVVGKGF
KGVGRSYRIAKSAAARRALRSLKANQPQVPNS

SumoPlot predictions for sumo sites