

Product datasheet for **SC309637**

Dicer (DICER1) (NM_177438) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dicer (DICER1) (NM_177438) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dicer
Synonyms:	DCR1; Dicer; Dicer1e; GLOW; HERNA; K12H4.8-LIKE; MNG1; RMSE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC309637 representing NM_177438. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_177438
Insert Size:	5769 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_177438.2
RefSeq Size:	10323 bp
RefSeq ORF:	5769 bp
Locus ID:	23405
UniProt ID:	Q9UPY3
Cytogenetics:	14q32.13
Protein Families:	Druggable Genome
MW:	218.7 kDa

Gene 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]
Transcript Variant: This variant (1) differs in the 5' UTR, compared to variant 2. Variants 1, 2, 4 and 5 encode the same isoform (1).