

Product datasheet for RC219214

Dicer (DICER1) (NM_177438) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dicer (DICER1) (NM_177438) Human Tagged ORF Clone
Tag:	Myc-DDK
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)
ORF Nucleotide Sequence:	>RC219214 representing NM_177438 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

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

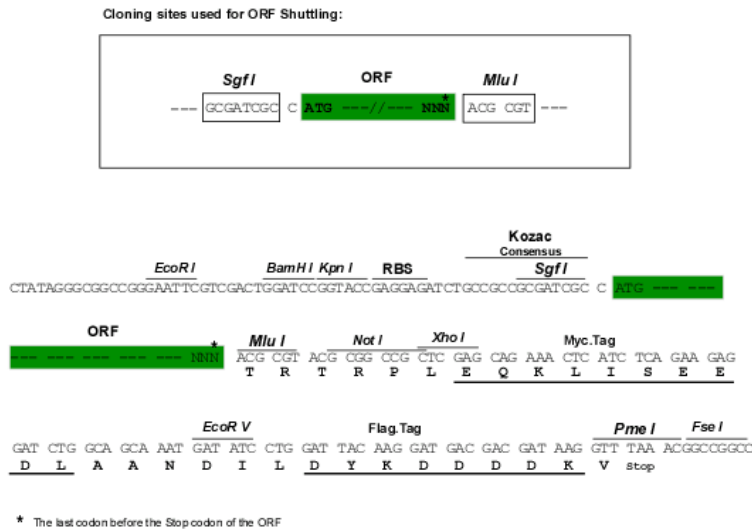
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Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_177438

ORF Size: 5766 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_177438.3](#)

RefSeq Size: 10276 bp

RefSeq ORF: 5769 bp

Locus ID: 23405

UniProt ID: [Q9UPY3](#)

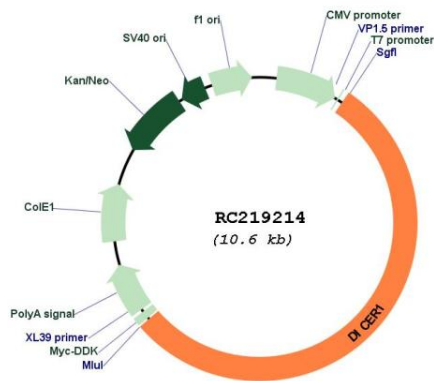
Cytogenetics: 14q32.13

Protein Families: Druggable Genome

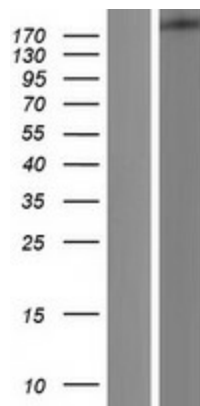
MW: 218.5 kDa

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]

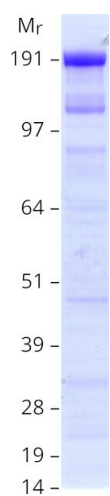
Product images:



Circular map for RC219214



Western blot validation of overexpression lysate (Cat# [LY406165]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219214 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



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]).