

## Product datasheet for **RG235350**

### Dicer (DICER1) (NM\_001271282) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dicer (DICER1) (NM_001271282) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DICER1
Synonyms:	DCR1; Dicer; Dicer1e; GLOW; HERNA; K12H4.8-LIKE; MNG1; RMSE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG235350 representing NM_001271282 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

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 CTAATCAACCTCAGGTTCCCAATAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG235350 representing NM\_001271282  
 Red=Cloning site Green=Tags(s)

MKSPALQPLSMAGLQMLTPASSPMGPFGLPWQQEAIHDNIYTPRKYQVELLEAALDHNTIVCLNTGSGK  
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 MPGTTDTIQVLKGRMDSEQSPSIGYSSRTLGNPGLILQALTLASNADGFNLERLEMLGDSFLKHAITTY  
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 KQSI SYDLHTEQCIADKSIADCVEALLGCYL TSCGERAAQLFLCSLGLKVLVPIKRTDREKALCPTRENF  
 NSQQKNLSVSCAAASVASSRSSVLKDESYGCLKIPPRCMFDHPDADKTLNHLISGFENFEKKINRYFKNK  
 AYLLQAFTHASYHYNTITDCYQRLEFLGDAILDYLI TKHLYEDPRQHSPGVLTDLRSALVNNTIFASLAV  
 KYDYHKYFKA VSPFLFHVIDDVQFQLEKNEMQGMSELRRSEDEEKEEDIEVPKAMGDI FESLAGAIY  
 MDSGMSLETVWQVYYPMMRPLIEKF SANVPRSPVRELLEMPEAKFSPAERTYDGKVRVTVEVVGKGF  
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TRTRPLE - GFP Tag - V

**Restriction Sites:**

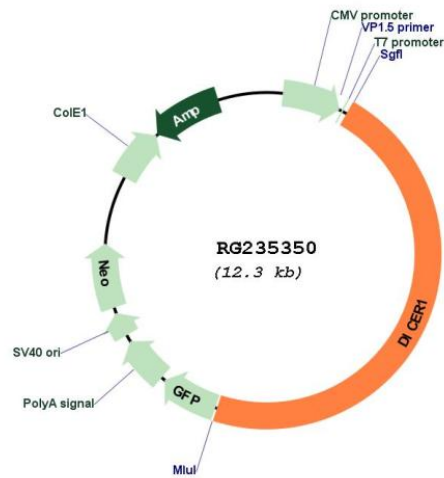
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_001271282

ORF Size: 5766 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001271282.3</a>
<b>RefSeq Size:</b>	6192 bp
<b>RefSeq ORF:</b>	5769 bp
<b>Locus ID:</b>	23405
<b>UniProt ID:</b>	<a href="#">Q9UPY3</a>
<b>Cytogenetics:</b>	14q32.13
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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]