

## Product datasheet for **RG211804**

### Dicer (DICER1) (NM\_030621) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Dicer (DICER1) (NM_030621) Human Tagged ORF Clone                           |
| Tag:                      | TurboGFP  |
| Symbol:                   | Dicer   |
| 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:  | >RG211804 representing NM_030621<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAAAGCCCTGCTTTGCAACCCCTCAGCATGGCAGGCCTGCAGCTCATGACCCCTGCTTCCTCACCAA  
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AACAAACAGATGGAAGCAGAATTCAGAAAAAGGAGGTTACTTAGGAAATTCGAGCAGATGAGACCA  
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 AAAGGTGTTGGTGAAGTTACAGGATTGCCAAATCTGCAGCAGCAAGAAGAGCCCTCCGAAGCCTCAAAG  
 CTAATCAACCTCAGGTTCCCAATAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG211804 representing NM\_030621  
 Red=Cloning site Green=Tags(s)

MKSPALQPLSMAGLQMLTPASSPMGPFGLPWQQEAIHDNIYTPRKYQVELLEAALDHNTIVCLNTGSGK  
 TFIIVLLTKELSYQIRGDFSRNGKRTVFLVNSANQVAQQVSAVRTHSDLKVGESNLEVNASWTKERWNQ  
 EFTKHQVLIMTCYVALNVLKNGYLSLSDINLLVFDECHLAILDHPYREIMKLCENCSPSCRILGLTASIL  
 NGKCDPEELEEKIQKLEILKSNAAETADLVLDRYTSQPCEIVVDCGPFDRSGLYERLLMELEEALNF  
 INDCNISVHSKERDSTLISKQILSDCRAVLVVLGPWCADKVAGMMVRELQKYIKHEQEELHRKFLFTDT  
 FLRKIHALLCEEHFSASLDLKFVTPKVIKLEILRKYKPYERQQFESVEWYNNRNQDNYSWSDSEDDDE  
 DEEIEEKEKPEFNFPSPFTNLCGIIIFVERRYTAVVLNRLIKEAGKQDPELAYISSNFITGHGIGKNQPR  
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 MPGTTDTIQVLKGRMDSEQSPSIGYSSRTLGNPGLILQALTLNASDGFNLERLEMLGDSFLKHAITTY  
 LFCYTPDAHEGRLSYMRSKKSVCNLYRLGKKKGLPSRMVVSIFDPPVNWLPVGYVVNQDKSNTDKWEKD  
 EMTKDCMLANGKLDDEYEEDEEEESLMWRAPKEEADYEDDFLEVDQEHIRFIDNMLMGSGAFVKKISLS  
 PFSTTDSAYEWKMPKSSLSGMPFSSDFEDFDYSSWDAMCYLDPKAVEEDDFVVGFWNPSEENCVDTG  
 KQSI SYDLHTEQCIADKSIADCVEALLGCYL TSCGERAAQLFLCSLGLKVLVPIKRTDREKALCPTRENF  
 NSQQKNLSVSCAAASVASSRSSVLKDESYGCLKIPPRCMFDHPDADKTLNHLISGFENFEKKINRYFKNK  
 AYLLQAFTHASYHYNTITDCYQRLEFLGDAILDYLI TKHLYEDPRQHSPGVLTDLRSALVNNTIFASLAV  
 KYDYHYKFAVSPFLFHVIDDVQFQLEKNEMQGMSELRRSEDEEKEEDIEVPKAMGDI FESLAGAIY  
 MDSGMSLETVWQVYYPMMRPLIEKFSANVPRSPVRELLEMEPETAKFSPAERTYDGKVRVTVEVVGKGF  
 KGVGRSYRIAKSAAARRALRSLKANQPQVPNS

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_030621

ORF Size: 5766 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_030621.4](#)

**RefSeq Size:** 10220 bp

**RefSeq ORF:** 5769 bp

**Locus ID:** 23405

**UniProt ID:** [Q9UPY3](#)

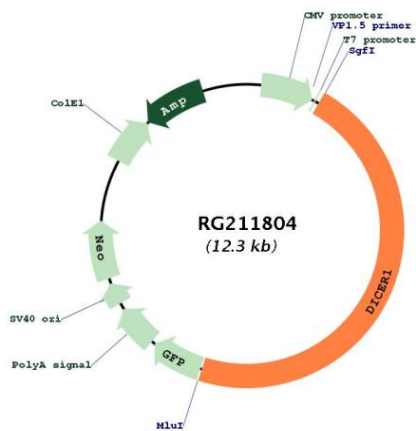
**Cytogenetics:** 14q32.13

**Domains:** RIBOc, DSRM, DEAD, helicase\_C, PAZ, DUF283

**Protein Families:** Druggable Genome

**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 RG211804