

## Product datasheet for **RG235137**

### SNM1A (DCLRE1A) (NM\_001271816) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SNM1A (DCLRE1A) (NM_001271816) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DCLRE1A
Synonyms:	PSO2; SNM1; SNM1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG235137 representing NM_001271816 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGTTAGAAGACATTTCCGAAGAAGACATTTGGGAATACAAATCTAAAAGAAAACCAAACGAGTTGATC  
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GAAAGATGGTCTTCGATCAGAACCAAAGTATAACTCGGTTTCAAATGATCCCTTATTGATGACACAGT  
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AGTGAGAACTGAATGCTAAGAATAACTACTAAGCTCAGCATGTTTCTGCAGAAAGGCATTAGAGGGTGTGC
CAGTTGGTAAAGCTACAATTTTAAATACAGAAAACCTGTCTAGTACACCTGCTCCGAAGTATTTGAAAAT
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GGAGAAATATTTTAGAGAGTGGAATTTGAAGCTGGATAT
    
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG235137 representing NM\_001271816  
 Red=Cloning site Green=Tags(s)

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MLEDISEEDIWEYKSKRKPVRVDPNNGSKNILKSVEKATDGKYQSKRSRNRKRAEAKEVKDHEVPLGNA
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VFECLDSPRSETECPDGLLCTSTIPFHYKRYTHFLLAQSRAGDHPFSSPSPASGGSFSEKSGVLCSELE
ERWSSYQNQTDNSVSNPDLMTQYFKKSPSLTEASEKISTHIQTSQQALQFTDFVENDKLVGVALRLANN
SEHINLPLPENDFSDCEISYSPLQSDETHDIDEKPDSSQEQLFFTESSKDGSLIEDDDSCGFKKRHGP
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CPFYKIPGTGFTVDAFYGVVEGCTAYFLTHFHSDHYAGLSKHFTFPVYCSEITGNLLKNLHVQEYI
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TRTRPLE - GFP Tag - V

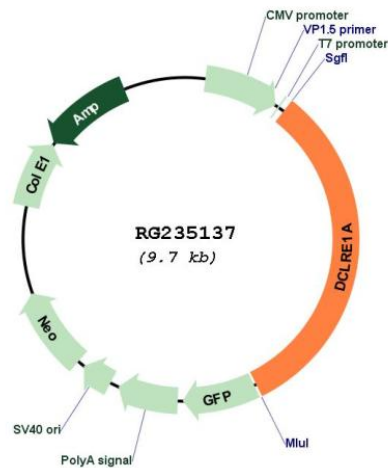
**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001271816

ORF Size: 3120 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](#)

<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_001271816.2</a>
<b>RefSeq Size:</b>	4267 bp
<b>RefSeq ORF:</b>	3123 bp
<b>Locus ID:</b>	9937
<b>UniProt ID:</b>	<a href="#">Q6PJP8</a>
<b>Cytogenetics:</b>	10q25.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	This gene encodes a conserved protein that is involved in the repair of DNA interstrand cross-links. DNA cross-links suppress transcription, replication, and DNA segregation. The encoded protein is a regulator of the mitotic cell cycle checkpoint. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2012]