

## Product datasheet for **RG213169**

### CLNS1A (NM\_001293) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLNS1A (NM_001293) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CLNS1A
Synonyms:	CLCI; CLNS1B; ICln
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213169 representing NM_001293 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTTCCTCAAAAGTTTCCCGCCGCTGGCCAGCGGAGGGGCTCCTGCGGCAGCAGCCAGACACTG  
AGGCTGTGCTGAACGGGAAGGGCTCGGCACTGGTACCCTTTACATCGCTGAGAGCCGCCTGTCTTGTT  
AGATGGCTCTGGATTAGGATTCTACTGGAATACCCACCATTAGTTTACATGCATTATCCAGGGACCGA  
AGTGACTGTCTAGGAGAGCATTGTATGTTATGGTGAATGCCAAATTTGAAGAAGAAATCAAAGAACCTG  
TTGCTGATGAAGAAGAGGAAGACAGTGATGATGTTGAACCTATTACTGAATTTAGATTTGTGCCTAG  
TGATAAATCAGCGTTGGAGGCAATGTTCCTGCAATGTGCGAATGCCAGGCTTGATCCAGATCCCTGAG  
GATGAGGATTCAGATGACTACGATGGAGAAGAATATGATGTGGAAGCACATGAACAAGGACAGGGGGACA  
TCCCTACATTTTACACCTATGAAGAAGGATTATCCCATCTAACAGCAGAAGGCCAAGCCACACTGGAGAG  
ATTAGAAGGAATGCTTTCTCAGTCTGTGAGCAGCCAGTATAATATGGCTGGGGTCAGGACAGAAGATTCA  
ATAAGAGATTATGAAGATGGGATGGAGGTGGATACCACACCAACAGTTGCTGGACAGTTTGGAGTGCAG  
ATGTTGATCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG213169 representing NM\_001293  
 Red=Cloning site Green=Tags(s)

MSFLKSFPPPGPAEGLLRQQPDTEAVLNGKGLGTGLYIAESRLSWLDGSGLGFSLEYPTISLHALSRDR  
 SDCLGEHLYVMVNAKFEEESKEPVADEEEEDSDDVVEPI TEFRFVPSDKSALEAMFTAMCECQALHPDPE  
 DEDSDDYDGEEDYEAHEQGQGDIPTFYTYEGLSHLTAEGQATLERLEGMLSQSVSSQYNMAGVRTEDS  
 IRDYEDGMEVDTTPTVAGQFEDADV DH

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001293

**ORF Size:** 711 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\\_001293.3](#)

**RefSeq Size:** 1368 bp

**RefSeq ORF:** 714 bp

**Locus ID:** 1207

**UniProt ID:** [P54105](#)

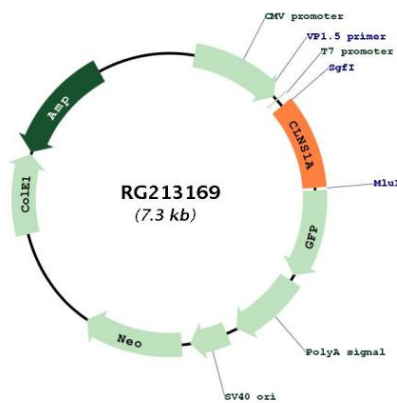
**Cytogenetics:** 11q14.1

**Domains:** ICl<sub>n</sub>\_channel

**Protein Families:** Ion Channels: Other

**Gene Summary:** This gene encodes a protein that functions in multiple regulatory pathways. The encoded protein complexes with numerous cytosolic proteins and performs diverse functions including regulation of small nuclear ribonucleoprotein biosynthesis, platelet activation and cytoskeletal organization. The protein is also found associated with the plasma membrane where it functions as a chloride current regulator. Pseudogenes of this gene are found on chromosomes 1, 4 and 6. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2015]

### Product images:



Circular map for RG213169