

Product datasheet for **RG213826**

CRLS1 (NM_019095) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CRLS1 (NM_019095) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CRLS1
Synonyms: C20orf155; CLS; CLS1; dj967N21.6; GCD10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG213826 representing NM_019095
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTAGCCTTGC CGCTGGCGCGCGGCTCGTGGGGGGCCCTGCGCGCGCCGCTTGGGCTCCGGAAACGC
 GGCCGAGTAAGCGACGCGCCTGCTGGGCCCTGCTGCCGCCGTGCCCTGCTGCTTGGGCTGCCTGGCCGA
 ACGCTGGAGGCTGCGTCCGGCCGCTCTTGGCTTGGGCTGCCCGGATCGCCAGCGGAACCACTGTTTCG
 GCGCGGGGAAGGCGGCTCCAGGCCAGCGGCCGAGCGGGCGCCGCTGCCGAAGCCCCGGGCGGCCAGT
 GGGCCCCGGCGAGCACCCCAGCCTGTATGAAAACCCATGGACAATCCC GAATATGTTGCAATGACGAG
 AATTGGCTTGGCCCCAGTCTGGGCTATTTGATTATTGAAGAAGATTTTAATATTGCACTAGGAGTTTTT
 GCTTTAGCTGGACTAACAGATTTGTTGGATGGATTTATTGCTCGAACTGGGCAATCAAAGATCAGCTT
 TGGGAAGTGCTCTTGATCCACTTGCTGATAAAATACTTATCAGTATCTTATATGTTAGCTTGACCTATGC
 AGATCTTATTCCAGTTCCACTTACTTACATGATCATTTTCGAGAGATGTAATGTTGATTGCTGCTGTTTTT
 TATGTCAGATACCGAACTCTTCCAACACCACGAACACTTGCCAAGTATTTCAATCCTTGCTATGCCACTG
 CTAGGTTAAAACCAACATTCATCAGCAAGTGAATACAGCAGTCCAGTTAATCTTGGTGGCAGCTTCTTT
 GGCAGCTCCAGTTTTCACTATGCTGACAGCATTTATCTTCAGATACTATGGTGTTTTACAGCTTTCACC
 ACAGCTGCATCAGCTTATAGTTACTATCATTATGGCCGGAAGACTGTTCCAGGTGATAAAAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213826 representing NM_019095
 Red=Cloning site Green=Tags(s)

MLALRVARGSWGALRGAAWAPGTRPSKRRACWALLPPVPCCLGCLAERWLRPAALGLRLPGIGQRNHCS
 GAGKAAPRPAAGAGAAAEAPGGQWGPASTPSLYENPWTIPNMLSMTRIGLAPVLGYLIIIEEDFNIALGVF
 ALAGLTDLLDGF IARNWANQRSALGSALDPLADKILISILYVSLTYADLIPVPLTYMIISRDMVLI AAVF
 YVRYRTLPTPRTLAKYFNPCYATARLKPTFISKVNTAVQLILVAASLAAPVFNYADSIYLQILWCFTAFT
 TAASAYSYYHYGRKTVQVIKD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019095

ORF Size: 903 bp

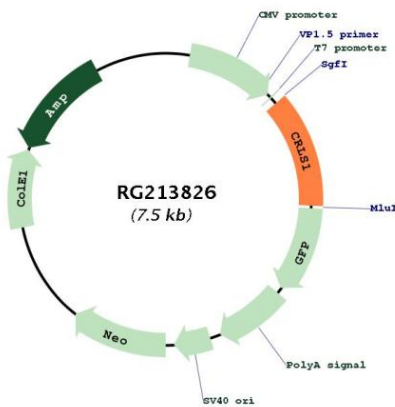
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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:	<ol style="list-style-type: none"> 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:	<u>NM_019095.6</u>
RefSeq Size:	1162 bp
RefSeq ORF:	906 bp
Locus ID:	54675
UniProt ID:	<u>Q9UJA2</u>
Cytogenetics:	20p12.3
Domains:	CDP-OH_P_transf
Protein Families:	Transmembrane
Protein Pathways:	Glycerophospholipid metabolism, Metabolic pathways
Gene Summary:	This gene encodes a member of the CDP-alcohol phosphatidyltransferase class-I family of proteins. The encoded enzyme catalyzes the synthesis of cardiolipin, a phospholipid component of mitochondrial membranes that is critical for mitochondrial function. [provided by RefSeq, Apr 2016]

Product images:



Circular map for RG213826