

Product datasheet for **RR208424**

Crls1 (NM_001014258) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Crls1 (NM_001014258) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Crls1
Synonyms: RGD1311037
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR208424 representing NM_001014258
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGCTGGCTTGGCGCTGGCACGCGCGCTGGGGTCCCTTCGCGTGGCCGTCCGGCCTCCAGGGGCGC
 GGCTCGGCAGGGGCGCTCCCGCAGGGCCCTGCTACCACCGCGGCTGCTGCCTGGGCTGCCTGGCCGA
 GCGCTGGCGGCTGCGTCCGGCCGCTTCGCCTTGGCGTGCCAGGCACCAGCCCGCGGACCCACTGCTCC
 GGCGCCGGAAGGCAGCCCGGAGCCCGCAGCCGGAGGAGATGCCGCCGCGCAGGCCCTAGTGCCCGT
 GGGTCCGGGCGAGCGCAACCAGCTCGTATGAAAATCCATGGACAATCCCAAATTTATTGTCAATGACAAG
 AATTGGCCTGGCCCGGTGTTGGGCTATCTGATTCCTGAAGAAGATTTTAAATGTTGCACTGGGTGTTTT
 GCTTTAGCTGGGCTAACGATTTGTTGGATGGATTTATTGCTCGAACTGGGCAATCAAAAATCAGCTT
 TGGGAAGTGCTCTTGATCCACTTGCTGATAAGGTTCTTATCAGCATCTTATATATTAGCCTGACCTATGC
 AGATCTTATTCCAGTCCCACTCACTTACATGATAATTTCAAGAGATGTAATGTTGATCGCTGCTGTGTT
 TATGTCAGATACCGAACTCTGCCAACCCGGAACACTAGCTAAGTACTTCAATCCTTGCTATGCCACTG
 CTAGGTTAAAACCAACATTCATCAGCAAGGTCAATACAGCAGTCCAGTTAATTTGGTGGCAGCTTCTCT
 GGCAGCTCCAGTTTTCAATTATGCTGACAGCATTTATCTTCAGATACTATGGTGTGTACAGCATTCACT
 ACAGCTCGTCCGCATACAGTTATTACTATGGTCCGAAAACGTTCAGGTGATAAAGGGCAA

ACGCGTACGCGGCCGCTCGAGCAGAAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR208424 representing NM_001014258
Red=Cloning site Green=Tags(s)

MLAWRVARGAWGSLRVAVRPPGARLGRGGSRRALLPPAACCLGCLAERWLRPAAFALRLPGTSPRTHCS
 GAGKAAPEPAAGGDAAAQAPSARWVRASATSSYENPWTIPNLLSMTRIGLAPVLGYLILEEDFNVALGVF
 ALAGLTDLLDGF IARNWANQKSALGSALDPLADKVLISILYISLTYADLIPVPLTYMIISRDMVLI AAVF
 YVRYRTLPTPRTLAKYFNPCYATARLKPTFISKVNTAVQLILVAASLAAPVFNYADSIYLQILWCCTAFT
 TAASAYSYYHYGRKTVQVIKGG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001014258

ORF Size: 906 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_001014258.1](#), [NP_001014280.1](#)

RefSeq Size: 1921 bp

RefSeq ORF: 909 bp

Locus ID: 366196

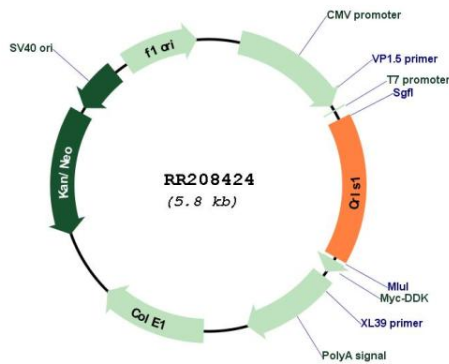
UniProt ID: [Q5U2V5](#)

Cytogenetics: 3q36

MW: 32.6 kDa

Gene Summary: Catalyzes the synthesis of cardiolipin (CL) (diphosphatidylglycerol) by specifically transferring a phosphatidyl group from CDP-diacylglycerol to phosphatidylglycerol (PG). CL is a key phospholipid in mitochondrial membranes and plays important roles in maintaining the functional integrity and dynamics of mitochondria under both optimal and stress conditions. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR208424