

Product datasheet for RN208424

Crls1 (NM_001014258) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crls1 (NM_001014258) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Crls1
Synonyms:	RGD1311037
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN208424 representing NM_001014258 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGCTTGGCGCGTGGCACGCGCGCGTGGGGTCCCTTCGCGTGGCCGTCCGGCCTCCAGGGGCGC
GGCTCGGCAGGGGCGGCTCCCGCAGGGCCCTGCTACCACCGCGGCCTGCTGCCTGGGCTGCCTGGCCGA
GCGCTGGCGGCTGCGTCCGGCCGCTTCGCCTTGGCGTCCAGGCACCAGCCCGCGGACCCACTGCTCC
GGCGCCGGAAGGCAGCCCGGAGCCCGCAGCCGAGGAGATGCCGCCGCGCAGGCCCTAGTGCCCGT
GGGTCCGGGCGAGCGCAACCAGCTCGTATGAAAATCCATGGACAATCCCAAATTTATTGTCAATGACAAG
AATTGGCCTGGCCCCGGTGTGGGCTATCTGATTCTTGAAGAAGATTTTAAATGTTGCACTGGGTGTTTT
GCTTTAGCTGGGCTAACGATTTGTTGGATGGATTTATTGCTCGAACTGGGCAATCAAAAATCAGCTT
TGGGAAGTGTCTTGATCCACTTGCTGATAAGGTTCTTATCAGCATCTTATATATTAGCCTGACCTATGC
AGATCTTATTCCAGTCCCACTCACTTACATGATAATTTCAAGAGATGTAATGTTGATCGCTGCTGTGTT
TATGTCAGATACCGAACTCTGCCAACCCGGAACACTAGCTAAGTACTTCAATCCTTGCTATGCCACTG
CTAGGTTAAAACCAACATTCATCAGCAAGGTCAATACAGCAGTCCAGTTAATTTGGTGGCAGCTTCTCT
GGCAGCTCCAGTTTTCAATTATGCTGACAGCATTTATCTTCAGATACTATGGTGTGTACAGCATTCACT
ACAGCTCGTCCGCATACAGTTATTACTATGGTCGGAAAACGTTCAGGTGATAAAGGGCAA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001014258
Insert Size:	909 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001014258.1</u> , <u>NP_001014280.1</u>
RefSeq Size:	1921 bp
RefSeq ORF:	909 bp
Locus ID:	366196
UniProt ID:	<u>Q5U2V5</u>
Cytogenetics:	3q36
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]