

Product datasheet for **RR202808**

Cds2 (NM_053643) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Cds2 (NM_053643) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Cds2
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR202808 representing NM_053643
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACCGAGCTACGGCAGAGGGCTGTCCGCGAGGACGCACCTCCGGAGGACAAGGAATCAGAGTCGGAAG
 CAAAGTTAGATGGAGAGACCGCATCAGACAGCGAGAGTCGAGCGGAAACAGCTCCCCACCAACCTCCAT
 AGATGATACCCAGAGGTCCTTAACAGGGCCCTTCCAACCTTGCTCCTCAAGATGGAAGAAGTGGTGGTG
 CGAGGCATCCTGACGATGGCCATGATTGCATTTTTCTTCATTATCATTTACCTGGGACCAATGGTTTTGA
 TGATGATTGTTATGTGTGTTCAAGTAAAGTGTTCATGAAATAACTACTATTGGCTACAATGTATACCA
 CTCCTACGACTTGCCCTGGTTCAGGACCCTCAGCTGGTACTTCCTCCTGTGTGTAAGTACTTCTCTAC
 GGGGAGACAGTGACAGACTACTTCTTCACTCTGGTCCAGAGAGAGGAGCCTTTCGCGATTCTCAGTAAAT
 ACCACCGGTTTCATCTCTTTACCCTGTATCTAACAGGATTCGCATGTTTGTCTGAGTCTGTTAAGAA
 GCATTATCGGCTGCAGTCTACATGTTGGCTGGACCCATGTGACCTTGCTTATTGTCGTAACGCAGTCA
 CATCTTGTATCCATAACTTGTGTTGAAGGAATGATATGGTTTATTGTTCCCATTTTCATGCGTCATCTGCA
 ATGATATTATGGCCTATATGTTTGGCTTTTTCTTGGTCCGACCCACTCATTAAAGCTCTCTCAAAGAA
 GACCTGGGAAGGCTTCATTGGGGCTTCTTTGCTACTGTGGTGTGGCCTTCTGCTCTCCTACGTGATG
 TCTGGGTACCGATGCTTCGTCCTGTGGAATACAACAATGACACCAACAGTTTCACTGTGGACTGTG
 AGCCATCTGACCTGTTCCGCTGCAGGAGTACAACATTCGCGGGTATCCAGTCGCTCGTTGGCTGGAA
 AACCATGAGGATGATACCTTTCCAGATCCACAGTGCCTCTCCACCTTCGCTCGCTCATTGGCCCATTT
 GGAGGGTCTTCGCAAGTGGATTCAAGCGGGCCTTTAAATCAAAGATTTGCCAACACCATTCCTGGTC
 ATGGAGGCATCATGGATCGCTTGTACTGCCAGTACCTGATGGCCACCTTGTCAACGTGTACATCGCCAG
 CTTTATCAGGGGCCCCAACCCGAGCAAAGTATCAGCAGTTCCTGACGTTGCGGCCGACCAGCAGCTT
 CACATCTCAACACACTCAAGTCTCACCTGACTGACAAGGGGATTCTGATGTCTGCCTTGAAGAGGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR202808 representing NM_053643
 Red=Cloning site Green=Tags(s)

MTELRQRAVREDAPPEDKESESEAKLDGETASDSESRAETAPPPTSIDDTPEVLNRLSNLSSRWKNWWV
 RGILTMAMIAFFFI I IYLGPMVLMMI VMCVQIKCFHEIITIGYNYVHSYDLPWFRTL SWYFLLCVNYFFY
 GETVTDYFRTL VQREELRILSKYHRFISFTLYLTGFCMFVLSLVKKHYRLQFYMFGWTHVTL LI VVTQS
 HLVIHNLFE GMIWFI VPI SCVICNDIMAYMFGFFGRTPLIKLSPKKTWEGFIGGFATVVFGLLSYVM
 SGYRCFVCPVEYNNDNSFTVDCEPSDLFRLQEYNI PGVIQSLVGWKTMRMYPFQIHSALSTFASLIGPF
 GGFFASGFKRAFKIKDFANTIPGHGGIMDRFDCQYLMATFVNVI IASFI RGNPNSKLIQQLTLRPDQQL
 HIFNTLTKSHLTDKGILMSALEEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

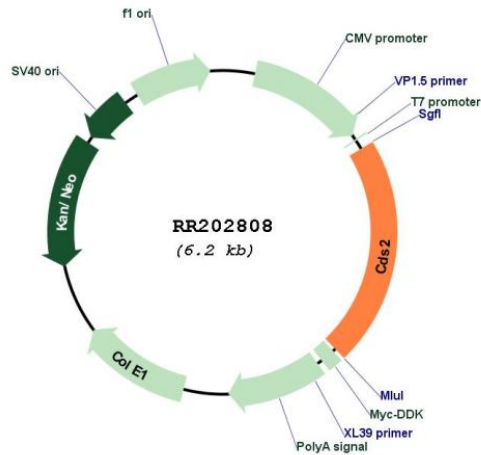
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_053643
ORF Size:	1329 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:	<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:	NM_053643.1 , NP_446095.1
RefSeq Size:	1523 bp
RefSeq ORF:	1332 bp
Locus ID:	114101
UniProt ID:	Q91XU8
Cytogenetics:	3q36
MW:	51.3 kDa
Gene Summary:	mitochondrial membrane protein that is important for the biosynthesis of phosphatidylglycerol and phosphatidylinositol [RGD, Feb 2006]