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Product datasheet for RG210375

CDS1 (NM_001263) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDS1 (NM_001263) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDS1
Synonyms:	CDS 1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG210375 representing NM_001263
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGGAGCTGAGGCACCGGGGAAGCTGCCCCGGCCCCAGGGAAGCGGTGTCGCCGCCACACCGCGAGG
GAGAGGCGGCCGGCGGCGACCACGAAACCGAGAGCACCAGCGACAAAGAAACAGATATTGATGACAGATA
TGGAGATTTGGATTCCAGAACAGATTCTGATATTCCGGAAATTCCACCATCCTCAGATAGAACCCCTGAG
ATTCTCAAAAAAGCTCTATCTGGTTTATCTTCAAGGTGGAAAAACTGGTGGATACGTGGAATTCTCACTC
TAACTATGATCTCGTTGTTTTTCCTGATCATCTATATGGGATCCTTCATGCTGATGCTTCTTGTTCTGGG
CATCCAAGTGAAATGCTTCCATGAAATTATCACTATAGGTTATAGAGTCTATCATTCTTATGATCTACCA
TGGTTTAGAACACTAAGTTGGTACTTTCTATTGTGTGTAAACTACTTTTTCTATGGAGAGACTGTAGCTG
ATTATTTTGCTACATTTGTTCAAAGAGAAGAACAACTTCAGTTCCTCATTCGCTACCATAGATTTATATC
ATTTGCCCTCTATCTGGCAGGTTTCTGCATGTTTGTACTGAGTTTGGTGAAGAAACATTATCGTCTGCAG
TTTTATATGTTCGCATGGACTCATGTCACTTTACTGATAACTGTCACTCAGTCACACCTTGTCATCCAAA
ATCTGTTTGAAGGCATGATATGGTTCCTTGTTCCAATATCAAGTGTTATCTGCAATGACATAACTGCTTA
CCTTTTTGGATTTTTTTTTGGGAGAACTCCATTAATTAAGTTGTCTCCTAAAAAGACTTGGGAAGGATTC
ATTGGTGGTTTCTTTTCCACAGTTGTGTTTGGATTCATTGCTGCCTATGTGTTATCCAAATACCAGTACT
TTGTCTGCCCAGTGGAATACCGAAGTGATGTAAACTCCTTCGTGACAGAATGTGAGCCCTCAGAACTTTT
CCAGCTTCAGACTTACTCACTTCCACCCTTTCTAAAGGCAGTCTTGAGACAGGAAAGAGTGAGCTTGTAC
CCTTTCCAGATCCACAGCATTGCACTGTCAACCTTTGCATCTTTAATTGGCCCATTTGGAGGCTTCTTTG
CTAGTGGATTCAAAAGAGCCTTCAAAATCAAGGATTTTGCAAATACCATTCCTGGACATGGTGGGATAAT
GGACAGATTTGATTGTCAGTATTTGATGGCAACTTTTGTACATGTGTACATCACAAGTTTTATAAGGGGC
CCAAATCCCAGCAAAGTGCTACAGCAGTTGTTGGTGCTTCAACCTGAACAGCAGTTAAATATATATAAAA
CCCTGAAGACTCATCTCATTGAGAAAGGAATCCTACAACCCACCTTGAAGGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

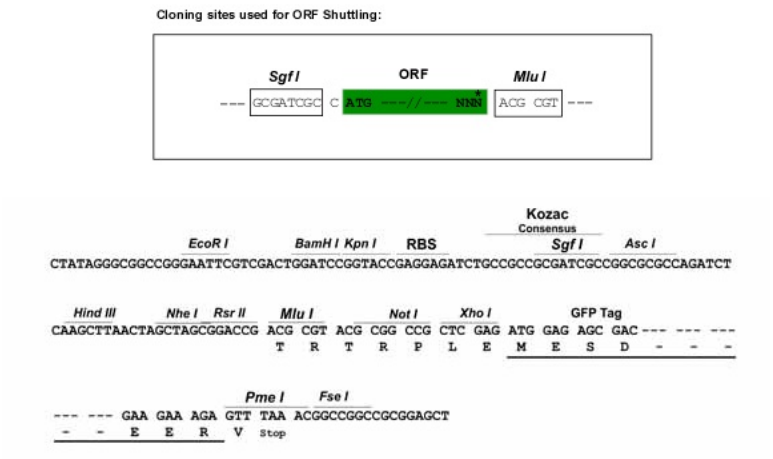
>RG210375 representing NM_001263
Red=Cloning site Green=Tags(s)

MLELRHRGSCPGPREAVSPPHREGEAAGGDHETESTSDKETDIDDRYGDLDSRTDSDIPEIPPSSDRTPE
ILKKALSGLSSRWKNWWIRGILTLTMISLFFLIIYMGSFMLMLLVLGIQVKCFHEIITIGYRVYHSYDLP
WFRTLSWYFLLCVNYFFYGETVADYFATFVQREEQLQFLIRYHRFISFALYLAGFCMFVLSLVKKHYRLQ
FYMFAWTHVTLLITVTQSHLVIQNLFEGMIWFLVPISSVICNDITAYLFGFFFGRTPLIKLSPKKTWEGF
IGGFFSTVVFGFIAAYVLSKYQYFVCPVEYRSDVNSFVTECEPSELFQLQTYSLPPFLKAVLRQERVSLY
PFQIHSIALSTFASLIGPFGGFFASGFKRAFKIKDFANTIPGHGGIMDRFDCQYLMATFVHVYITSFIRG
PNPSKVLQQLLVLQPEQQLNIYKTLKTHLIEKGILQPTLKV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001263
ORF Size:	1383 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_001263.4
RefSeq Size:	2374 bp
RefSeq ORF:	1386 bp
Locus ID:	1040
UniProt ID:	Q92903
Cytogenetics:	4q21.23

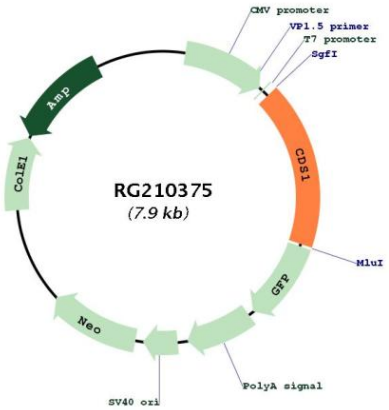
Domains: CTP_transf_1

Protein Families: Transmembrane

Protein Pathways: Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system

Gene Summary: Breakdown products of phosphoinositides are ubiquitous second messengers that function downstream of many G protein-coupled receptors and tyrosine kinases regulating cell growth, calcium metabolism, and protein kinase C activity. This gene encodes an enzyme which regulates the amount of phosphatidylinositol available for signaling by catalyzing the conversion of phosphatidic acid to CDP-diacylglycerol. This enzyme is an integral membrane protein localized to two subcellular domains, the matrix side of the inner mitochondrial membrane where it is thought to be involved in the synthesis of phosphatidylglycerol and cardiolipin and the cytoplasmic side of the endoplasmic reticulum where it functions in phosphatidylinositol biosynthesis. Two genes encoding this enzyme have been identified in humans, one mapping to human chromosome 4q21 and a second to 20p13. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210375