

Product datasheet for **MG210471**

Ccpg1 (BC082602) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccpg1 (BC082602) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ccpg1
Synonyms:	1700030B06Rik; 1810073J13Rik; 9430028F23Rik; AI426686; AI875170; CPR8; D9Erttd392e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210471 representing BC082602
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAAAGTCCAGCGACAGCGACTCATCTTGTGGCTGGACTGTCATCAATCATGAGGGTTCTGATA
 TAGAGATCGTGAATTCTGCCACAGCCAGTGACAAGTGTGGACTGACTCTAGAATGTTCCCTTAGTAGAACA
 AGAGGAGCTGCCGTTCTTTATGTAGGGCATGGAGGTGAAGAAAGCAGCGCAAACAACACATCGTCAGTG
 GGAGAAACCATGTTGTCATCAATGAGAGAAACCAAGTCAGCAGCTGAGGTGGAGGAAGCACCTTCCCTG
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 GAAGGGTTATCTCTCACAGCGCAAGCAGGAACAAGAGTCTTTTCTAGATTTCAAGTCGCTGAAAGAAAAC
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 GTAAAAGGTTACCTTAAGAGCATAAAGGAGTATCGAGTAGAGGATGGCAATCTGGAGAAGTTGGACGGAT
 GTATATATAGACACTTTGGGCATGTTTTGCCCTGCCATTCCGACCCAGGTCGGTTTACATAAAACCATG
 TACTATAATAGCTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210471 representing BC082602
Red=Cloning site Green=Tags(s)

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MSESSSDSDSSCGWTVINHEGSDIEIVNSATASDNCGLTLECSLVEQEELPVLVYVGHGGEESSANTSSV
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SSSQYAFQCQPEPVFSSQPSDEESSDDTSHEPSPAPRRRRNRKKTVSISEEEPLAEPEDEPSKEPSKR
HFSRGLNKCIVILALVISVSMGFHFYGTIQIQKQLVRKTHEDELQVKGKYLQSRKQEQESFLDFKSLKEN
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VLKQYLEVEKQKTD SFLREREMLEEARM LKRD LEREQLTAMALRAELEQFIPGQAQSRAESPSVQTEEK
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FDAMKNSTKEFVRHHKEIKQAKEAVKENLKKFSDSVKSTFRHFKDTTKNIFDEKSKRFRAPKEAATEK
TRTAYSYSYSQEQEAPNQNCRRPSAQRDGGREKPSHSEEIRKNANSYTYKAKSDCRGTHSTRVCSGM
FECAGQEAISPVNKASPVRMNDFKQLIHWYLLNELETFHHWKELDQFISPFPSNGVFRHDQQLFADFVDD
VKGYLKSIKEYRVEDGNLEKLDGCIYRHFHGFALPFGPRSVYIKPCYYNSF
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC082602

ORF Size: 2258 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: [BC082602](#), [AAH82602](#)

RefSeq Size: 2931 bp

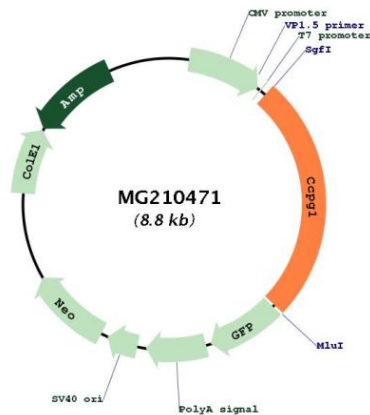
RefSeq ORF: 2258 bp

Locus ID: 72278

Cytogenetics: 9 40.08 cM

Gene Summary: Acts as an assembly platform for Rho protein signaling complexes. Limits guanine nucleotide exchange activity of MCF2L toward RHOA, which results in an inhibition of both its transcriptional activation ability and its transforming activity. Does not inhibit activity of MCF2L toward CDC42, or activity of MCF2 toward either RHOA or CDC42. May be involved in cell cycle regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210471