

Product datasheet for **RG223139**

CCPG1 (NM_004748) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCPG1 (NM_004748) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CCPG1
Synonyms:	CPR8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG223139 representing NM_004748
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGTAAAATTCCAGTGACAGTGATTTCATCTTGTGGTTGGACTGTCATCAGTCATGAGGGGTCAGATA
 TAGAAATGTTGAATTCTGTGACCCCACTGACAGCTGTGAGCCCGCCCAAGATGTTTCATCTTTAGAGCA
 AGAGGAGCTTCAAGCATTGCAGATAGAGCAAGGAGAAAGCAGCCAAAATGGCACAGTGCTTATGGAAGAA
 ACTGCTTATCCAGCTTTGGAGGAAACAGCTCAACAATTGAGGCAGAGGAACAAAAGATACCCGAAGACA
 GTATCTATATTGGAAGTCCAGTGATGATTCTGATATTGTTACCTTGAGCCACCTAAGTTAGAAGAAAT
 TGGAAATCAAGAAGTTGTCATTGTTGAAGAAGCACAGAGTTCAGAAGACTTTAACATGGGCTCTTCTCT
 AGCAGCCAGTATACTTTCTGTCAGCCAGAACTGTATTTTCATCTCAGCCTAGTGACGATGAATCAAGTA
 GTGATGAAACAGTAATCAGCCAGTCTGCTTTAGACGACGCCGTGCTAGGAAGAAGACCGTTTCTGC
 TTCAGAATCTGAAGACCGCTAGTTGCTGAACAAGAACTGAACCTTCTAAGGAGTTGAGTAAACGTCAG
 TTCAGTAGTGGTCTCAATAAGTGTGTTATACTTGTCTTGGTGATTGCAATCAGCATGGGATTGGCCATT
 TCTATGGCACAATTCAGATTGAGAAGCGTCAACAGTTAGTCAGAAAGATACATGAAGATGAATTGAATGA
 TATGAAGGATTATCTTTCCAGTGTCACAGGAACAAGAATCTTTTATAGATTATAAGTCATTGAAAGAA
 AATCTTGCAAGGTGTTGGACACTTACTGAAGCAGAGAAGATGCTCTTTGAAACTCAGAAAACGAACCTTG
 CTACAGAAAATCAGTATTTAAGAGTATCCTTGGAGAAGGAAGAAAAGCCTTATCCTCATTACAGGAAGA
 GTTAAACAACTAAGAGAACAGATTAGAATATTGGAAGATAAAGGGACAAGTACTGAATTAGTTAAAGAA
 AATCAGAACTTAAGCAGCATTGGAAGAGGAAAAGCAGAAAAACACAGCTTTCTTAGTCAAAGGGAGA
 CTCTGTTGACAGAAGCAAAGATGCTAAAGAGAGAACTGGAGAGAGAACGACTAGTAACTACGGCTTTAAG
 GGGGGAACCTCCAGCAGTTAAGTGGTAGTCAGTTACATGGCAAGTCAGATTCTCCAATGTATATACTGAA
 AAAAGGAAATAGCAATCTTACGGGAAAGACTCACTGAGCTGGAACGGAAGCTAACCTTCGAACAGCAGC
 GTTCTGATTTGTGGGAAAGATTGTATGTTGAGGCAAAAGATCAAAATGGAAAACAAGGAACAGATGGAAA
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 CTAAAGAAGCTGTGAAGGAAATCTGAAAAATTCTCAGATTGAGTTAAATCCACTTTCAGACACTTTAA
 AGATACCACCAAGAATATCTTTGATGAAAAGGTAAATAAAGATTGGTGCTACAAAAGAAGCAGCTGAA
 AAACCAAGAAGCTTTTGTAGTACTATTTACATCCACAGTATAAGGCACCTACAGAAAACCATCATAATA
 GAGGCCCTACTATGCAAAATGATGGAAGGAAAGAAAAGCCAGTTCACTTTAAAGAATTCAGAAAAATAC
 AAATTCAAAGAAATGCAGTCCTGGGCATGATTGTAGAGAAAATCTCATTCTTTAGAAAAGGCTTGTCT
 GGTGTATTTGATTGTGCTCAACAAGAGTCCATGAGCCTTTTAAACACAGTGGTGAATCCTATAAGGATGG
 ATGAATTTAGACAGATAATTCAAAGGTACATGTTAAAGAAGTGGATACTTTTGTCACTGGAACGAACT
 TGATCAGTTCATCAATAAGTTTTCTTAAACGGTGTCTTTATACATGATCAGAAGCTCTTCACTGACTTT
 GTTAATGATGTTAAAGATTATCTTAGAAACATGAAGGAATATGAAGTAGATAATGATGGAGTATTTGAGA
 AGTTGGATGAATATATATAGACACTTCTTTGGTCACACTTTTCCCTCCATATGGACCCAGGTCGGT
 TTACATAAAACCGTGTCATTACAGTAGTTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG223139 representing NM_004748
 Red=Cloning site Green=Tags(s)

MSENSSDSDSSCGWTVISHEGSDIEMLSVTPDSCPEAPCCSSLEQEELQALQIEQGESSQNGTVLMEE
 TAYPALEETSSTIEAEEQKIPEDSIYIGTASDDSDIVTLEPPKLEEIGNQEVVIEEAQSSSEDFNMGSSS
 SSQYTFQCQPETVFSQPSDESSDETSNQPSAFRRRRARKKTVSASESEDRLVAEQETEPSKELSKRQ
 FSSGLNKCIVILALVIAISMFGHFYGTIQKRQQLVRKIHEDELNDMKDYLQCCQEQESFIDYKSLKE
 NLARCWTLTEAEKMSFETQKTNLATENQYLRVSLKEEEKALSSLQEELNKLREQIRILEDKGTSTELVKE
 NQKLKQHLKEEEKQKKHSFLSQRETLLTEAKMLKRELERERLVTALRGELQQLSGSQLHGKSDSPNVYTE
 KKEIAILRERLTELERKLTFEQQRSDLWERLYVEAKDQNGKQGTGDKKKGGRGSHRAKNKSKETFLGSVK
 ETFDAMKNSTKEFVRHHKEIKQAKEAVKENLKKFSDSVKSTFRHFKDTTKNIFDEKGNKRFGATKEAAE
 KPRTVFS DYLHPQYKAPTENHHNRGPTMQNDGRKEKPVHFKEFRKNTNSKKCSPGHDCRENSHSFRKACS
 GVFDCAQQESMSLFNTVNPIMDEFRIQRYMLKELDTFCHWNELDQFINKFFLNGVFIHDQKLFTDF
 VNDVKDYLRNMKEYEVDNDGVFEKLDEYIYRHFFGHTFSPPYGPRSVYIKPCHYSSL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004748

ORF Size: 2271 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_004748.5](#)

RefSeq Size: 6666 bp

RefSeq ORF: 2274 bp

Locus ID: 9236

UniProt ID: [Q9ULG6](#)

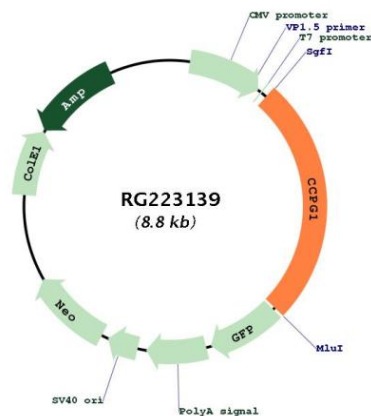
Cytogenetics: 15q21.3

Domains: LEA

Protein Families: Transmembrane

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 (By similarity). May be involved in cell cycle regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG223139