

Product datasheet for **RG223939**

RCCD1 (NM_033544) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	RCCD1
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PSI00010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG223939 representing NM_033544
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGCGGAGGAGCGGCCGGGGGCTGGTTCTGGCTTCGGTTTCTGCGGCTTCGGGCAGGAGCTGGGCTCCG
GACGCGGGCGCCAGGTGCACAGCCCCAGTCCGCTGCGGGCGGGCGTCGACATCTGCCGCGTGAGCGCGAG
CTGGAGCTACACCGCTTTCGTGACCCGTGGAGGCGCTTGGAGCTGTGGGCTCAGCCAGCGCGCGCGCG
GGCCGCTGCAAGGACGCGTGGGCTCGGAGGGGCTCCTCGCGGTGCTGCGCGCGGGCGGGGCCGGAGG
CGTTACTGCAGGTCTGGGCGGCCGAATCGGCGCTGCGTGGGAGCCATTGTGGGCCAGAATGTGGTGCC
CGAGGCCGAAGGGGAAGACGATCCGGCCGTGAGGCCAGGCTGGGAGGCTACCCCTGCTGCCCTGCGCC
CGTGCCTACGTGAGCCCCGCGGCGCCCTTCTACCGCCCTCTGGCTCCGGAGCTGCGGGCACGCCAGCTGG
AGCTGGGCGCCGAGCACGCGTTGCTGCTGGACGCTGCTGGCCAGGTGTTCTCTGGGCGGGGGCAGGCA
TGGACAGCTGGGCCATGGGACCCTGGAGGCAGAGCTGGAGCCACGGCTGTTGGAGGCGTTGCAGGGCCTA
GTCATGGCTGAGGTGGCCGCGGGGGCTGGCATTCTGTGTGTGAGTGAGACTGGGGATATTTATATCT
GGGGCTGGAATGAATCAGGGCAGCTGGCCCTGCCACCAAGAACCTGGCAGAGGATGGAGAGACTGTCGC
AAGGGAAGCCACAGAATGAATGAAGATGGTTCTCAGGTGAAGAGAACGGGTGGGGCTGAGGATGGAGCC
CCTGCCCCCTTCATAGCTGTCCAGCCCTTCCCGGCATTACTGGATCTCCCCATGGGCTCAGATGCAGTCA
AGGCCAGCTGTGGATCCCGGCACACAGCTGTGGTGACACGAACAGGGGAGCTCTACACCTGGGGCTGGGG
TAAATATGGACAGCTGGGCCACGAGGACACCAGCTTGGATCGGCCTCGCCGTGTGGAATACCTTTGTA
GATAAGCAACTCCAAGTAAAGGCTGTACCTGTGGGCCGTGGAACACCTACGTGTATGCTGTGGAGAAAG
GGAAGAGC

AG**CGGACCG**ACGCGTACGCGCGGCTCGAG - GFP Tag - GTTTAA



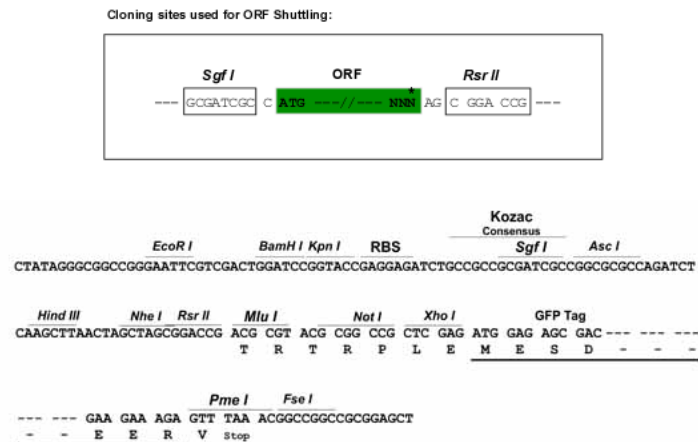
Protein Sequence: >RG223939 representing NM_033544
Red=Cloning site Green=Tags(s)

MAEERPGAWFGFGFCGFGQELGSGRGRQVHSPSPLRAGVDICRVASWSYTAFTVTRGGRLELSGSASGAA
GRCKDAWASEGLLAVLRAGPGPEALLQVWAAESALRGEPLWAQNVVPEAEGEDDPAGEAQAGRLPLLPCA
RAYVSPRAPFYRPLAPELRARQLELGAHALLLDAAGQVFSWGGGRHGQLGHGTLEAELEPRLLEALQGL
VMAEVAAGGWHSVCVSETGDIYIWGWNESGQLALPTRNLAEDGETVAREATELNEDGSQVKRTGGAEDGA
PAPFIAVQPFPAALLDPMGSDAVKASCGSRHTAVVTRTGELYTWGWGKYGQLGHEDTSLDRPRRVEYFV
DKQLQVKAVTCGPWNTYVYAVEKGKS

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_033544

ORF Size: 1128 bp

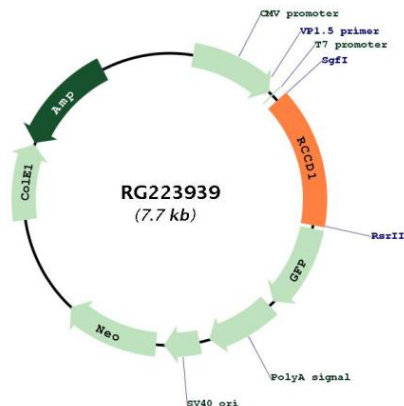
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_033544.2, NP_291022.2</u>
RefSeq Size:	2774 bp
RefSeq ORF:	1131 bp
Locus ID:	91433
UniProt ID:	<u>A6NED2</u>
Cytogenetics:	15q26.1
Gene Summary:	Plays a role in transcriptional repression of satellite repeats, possibly by regulating H3K36 methylation levels in centromeric regions together with KDM8 (PubMed:24981860). Possibly together with KDM8, is involved in proper mitotic spindle organization and chromosome segregation (PubMed:24981860). Plays a role in regulating alpha-tubulin deacetylation and cytoskeletal microtubule stability, thereby promoting cell migration and TGF-beta-induced epithelial to mesenchymal transition (EMT), potentially through the inhibition of KDM8 (PubMed:28455245).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG223939