

Product datasheet for **MG205878**

Rccd1 (NM_173445) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rccd1 (NM_173445) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rccd1
Synonyms:	5830436H09; E430018M08Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205878 representing NM_173445 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGAGAAACGGCACGGAGCCTGGTTCGGCTTTGGTTTCTGTGGCTTTGGCAAGCGCTGGTTCTG
GGAACAGCCACCATTAGTGTACAGTCCCAGCAACTGCATGCCAGTGATGATATTTGCCAAGTGAAGCGC
AGGCTGGAGCTACACTGCCCTGGTACCCGTGGAGGCCGGTGAATTGTCAGGTTCTGTGAGCGGTGCA
GCAGACGGCTGCAGGGACGTGTGGCTTCGGAGGAACCTGGTGTGCTGCGCAACAAGGGCGGCCCA
GCACGGAAGTGCAGGCCCTGGGTACCAGGTTCCGCGTTACAGGGGAGCCCTCTGGTCCAGAATTGGT
TTCTGGGCAAGGGCCAAGGGGAAGATGAACCCAGCAGGGAGTCTAGGATGGGGACCCTGCCATTGCTA
CCCTGCGCCCGTGCCTATGTGACCCAGAACCCCTTCTGCCAGCCTCTGGCCCAAGAGCTGCGGGTCC
GCCAGCTGGAGCTGGGAGCTGAGCATGTGCTGCTGTTGTGCACAGCTGGCCAGGTGTTCTCTGGGGCGC
GGGCAGGCATGGACAGCTGGGCCACGGGACGCTGGAGGCAGAAGTACAGCCAAAGACTGTTGGAGGCACTG
CAGGGCTGCGGATGGCTAAGGTGGCTGCAGGTGGCTGGCACTCTGTGTGTTGAGTGAACGGGGGATA
TTTATATATGGGGCTGGAATGAGTCAGGGCAGCTGGCCCTGCCCAAGGAGTGGGACAGAGAAGAAAGC
AGAGAGAGAGGAAGCCACAGAATTGAATGAAGATGGTCTCAAAGAGGAATTAGCTGTGGCTGATGCAGGA
GCTCTGCCACTTCATAGCCATCCAGCCCTCCCTGCTCTTCTGGATCTCCCTGGGCTCAGATGCAG
TTATGGCCAGCTGCGGATCCCGACACACAGCTGTGGTGACACGCACAGGAGAAGCTATACCTGGGGCTG
GGTAAATACGGACAGCTTGCCACAAGGACAGCACCAGCTTGGATCGACCCTGTGTGTGGAGTACTTT
GTAGAAAGACAATTGAAGTAAGGGCTGTGACATGTGGACCCTGGAATACCTATGTCTATGCAATGGAAA
GAGACAAAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205878 representing NM_173445
 Red=Cloning site Green=Tags(s)

MAEKRHGAWFGFGFCGFGQALGSGNSHHSVYSPEPLHASDDICQVSAGWSYALVTRGGRVELSGSVSGA
 ADGCRDVWASEELLVLLRNKGGASTELQAWVPGSALQGEPLWVQNLVSGAKGQGEDEPSRESRMGTLPLL
 PCARAYVTPEPPFCQPLAPELRVRQLELGAHVLLLLCTAGQVFSWGAGRHGQLGHGTLEAELEPRLLLEAL
 QGLRMAKVAAGGWHSVCLSETGDIYIWGWNESGQLALPTRSGTEKKAEREAEATELNEDGLKEELAVADAG
 APAHFIAIQPFALLDLPLGSDAVMASCGRHTAVVTRTGELYTWGWGKYGQLGHKDSTSLDRPCCVEYF
 VERQLEVRVAVTCGPWNTYYAMERDKS

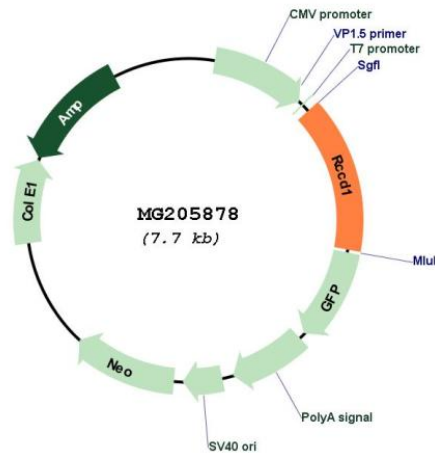
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_173445

ORF Size:	1131 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_173445.1 , NP_775621.1
RefSeq Size:	2293 bp
RefSeq ORF:	1134 bp
Locus ID:	269955
UniProt ID:	Q8BTU7
Cytogenetics:	7 D2
Gene Summary:	Plays a role in transcriptional repression of satellite repeats, possibly by regulating H3K36 methylation levels in centromeric regions together with KDM8. Possibly together with KDM8, is involved in proper mitotic spindle organization and chromosome segregation. 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.[UniProtKB/Swiss-Prot Function]