

Product datasheet for **MG207591**

Coro1c (NM_011779) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Coro1c (NM_011779) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Coro1c
Synonyms:	AL022675; AW455561; AW548837
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207591 representing NM_011779
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCGCGGAGTGGTGCAGCAGCAAGTCCGCCACGTCTTTGGACAGGCGGTGAAGAATGACCAGTGTCT
 ATGACGACATCCGTGTCTCCCGAGTCACCTGGGACAGTTCTTTTGTGCGGTCAACCCAGATTCGTGGC
 CATCATCATAGAAGCGAGTGGGGAGGGCCCTTCTGGTGTCTCCCTCTGCACAAGACGGGACGAATTGAC
 AAATCCTACCCTACAGTGTGTGGCCACACAGGACCAGTGTGGACATAGACTGGTGTCCACATAATGACC
 AGGTCAATGCCAGCGGCTCAGAGGACTGCACTGTTATGGTTTGGCAGATCCCGGAAAATGGACTCACCT
 TTCCCTGACCGAGCCTGTGGTATTCTAGAAGGGCACTCAAAAAGAGTTGGCATCGTGGCCTGGCACCCG
 ACGGCCCGCAATGTGCTTCTCAGTGCAGGCTGTGATAATGCCATTATCATCTGGAACGTGGGACAGGGG
 AAGCCCTCATCAACTGGACGATATGCATTAGACATGATTTACAATGTGAGCTGGAGCCGTAACGGTAG
 TCTCATCTGCACCGCATCAAAGACAAGAAAGTGAGAGTATTGACCCAGGAAACAGGAGATTGTGGCG
 GAGAAGGAGAAAACACACGAAGGAGCCAGGCCTATGCGTGCCATCTTCTGGCGGACGGCAACGTCTTCA
 CTACTGGCTTTAGCCGCATGAGCGAGCGGAGTTGGCGCTCTGGAACCCAAAAACATGCAGGAACCAAT
 TGCTCTCCATGAAATGGACACTAGCAATGGGGTGTGCTCCCCTTCTACGATCCGGACACCAGCATCATC
 TACTTATGTGGGAAGGGTGACAGCAGTATCCGCTATTTTGGAGTACCGGATGAATCCCCATATGTCCACT
 ACCTCAACACATTCAGCAGCAAGGAGCCTCAGCGAGGGATGGGCTACATGCCAAGCGGGGCCCTTGACGT
 CAACAAGTGTGAAATTGCCAGATTCTTCAAGCTTCATGAGAGAAAGTGGAGCCATTATCATGACGGTC
 CCCAGGAAGTCTGACCTTCTCAAGACGACCTGTACCTGACACGGCAGGCGCGGAGCCGCCCTTGAGG
 CCGAGGAGTGGTTTGAGGGGAAGAACGACAGCCCATCCTCATATCGTTGAAGCAGGGTACATTCCAGG
 CAAGAACAGGGACCTCAAGGTGGTCAAGAAGAACATCCTGGACAGCAAGCCGGCTGCAAAACAAGAAGAGC
 GAGCTCAGCTGTGCCCAAGAAGCCACAGACACGGCCAGTGTGCAAAACGAAGCAAGTTGGATGAGA
 TTCTGAAAGAGATCAAATCCATAAAGGAAACAATCTGCAGTCAAGACGAGCGCATTTCCAAGTTGGAGCA
 GCAGCTGGCGAAGATGGCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207591 representing NM_011779
 Red=Cloning site Green=Tags(s)

MRRVVRQSKFRHVFQAVKNDQCYDDIRVSRVTWSSFCVAVNPRFVAIIIEASGGGAFLVPLHKTGRID
 KSYPTVCGHTGPVLDIDWCPHNDQVIASGSEDCTVMVWQIPENGLTSLTEPVVILEGHSKRVGIVAWHP
 TARNVLLSAGCDNAIIWNVGTGEALINLDDMHSDMIYVSWSRNGSLICTASKDKKVRVIDPRKQEIWA
 EKEKAHEGARPMRAIFLADGNVFTTGFSRMSERQLALWNPKNMQEPIALHEMDSNGVLLPFYDPDTSII
 YLCGKGDSSIRYFEITDESPYVHYLNTFSSKEPQRGMGYMPKRGLDVNKCEIARFFKLHERKCEPIIMTV
 PRKSDLFQDDLYPDAGPEAALEAEWFEGKNADPILISLKHGYIPGKNRDLKVVKNILDSKPAANKKS
 ELSCAPKPTDTASVQNEAKLDEILKEIKSIKETICSQDERISKLEQQLAKMAA

TRTRPLE - GFP Tag - V

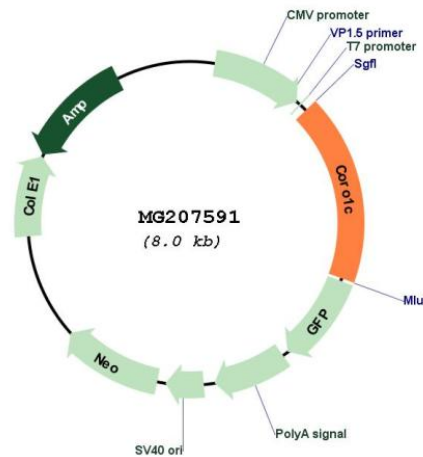
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_011779

ORF Size: 1422 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_011779.2](#), [NP_035909.2](#)

RefSeq Size: 3438 bp

RefSeq ORF: 1425 bp

Locus ID: 23790

UniProt ID: [Q9WUM4](#)

Cytogenetics: 5 F

Gene Summary: Plays a role in directed cell migration by regulating the activation and subcellular location of RAC1 (PubMed:25074804, PubMed:25925950). Increases the presence of activated RAC1 at the leading edge of migrating cells (PubMed:25074804, PubMed:25925950). Required for normal organization of the cytoskeleton, including the actin cytoskeleton, microtubules and the vimentin intermediate filaments (PubMed:27178841). Required for normal cell proliferation, cell migration, and normal formation of lamellipodia (PubMed:27178841). Plays a role in endoplasmic reticulum-associated endosome fission: localizes to endosome membrane tubules and promotes recruitment of TMCC1, leading to recruitment of the endoplasmic reticulum to endosome tubules for fission. Endosome membrane fission of early and late endosomes is essential to separate regions destined for lysosomal degradation from carriers to be recycled to the plasma membrane (By similarity). Required for normal distribution of mitochondria within cells (PubMed:27178841).[UniProtKB/Swiss-Prot Function]