

Product datasheet for **RG202890**

MCC (NM_002387) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCC (NM_002387) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MCC
Synonyms:	MCC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202890 representing NM_002387
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATTCGGAGTTGCCATGAAATATGGAACGACTCCTCGGCCGAGCTGAGTGAGCTCCATTCAGCAG
 CCTGGCATCACTAAAGGGAGATATAGTGAACCTAATAAACGCTCCAGCAAACAGAGAGGGAACGGGA
 CCTTCTGGAAGAAATTGGCCAAGGCACAGTGCAGCAGTCCCACCTCATGAGAGAGCATGAGGATGTC
 CAGGAGCGAACGACGCTTCGCTATGAGGAACGCATCACAGAGCTCCACAGCGTCATTGCGGAGCTCAACA
 AGAAGATAGACCGTCTGCAAGGCACCACCATCAGGGAGGAAGATGAGTACTCAGAAGTGCATCAGAAGT
 CAGCCAGAGCCAACACGAGGTCAACGAGGACTCTCGAAGCATGGACCAAGACCAGACCTCTGTCTCTATC
 CCCGAAAACAGTCTACCATGGTACTGCTGACATGGACAAGTGCAGTGCCTGAACTCAGAAGTGCAGA
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 GGTGGACAGGCATTGAGCAGCTCACACAGCCAGCAGCAGTGTGACCTGGCTATTAAGACAGTCGAG
 GAGATTGAGGGGGTGTGGCCGGGACCTGTATCCCAACCTGGCTGAAGAGAGGTCTCGGTGGGAGAAGG
 AGCTGGCTGGGCTGAGGGAAGAGAATGAGAGCCTGACTGCCATGCTGTGCAGCAAAGAGGAAGAAGTAA
 CCGGACTAAGGCCACCATGAATGCCATCCGGGAAGAGCGGGACCGGCTCCGGAGGAGGGTCAGAGAGCTT
 CAAACTCGACTACAGAGCGTGCAGGCCACAGGTCCTCCAGCCCTGGCCGCTCACTTCCACCAACCGCC
 CGATTAACCCAGCACTGGGGAGCTGAGCACAAGCAGCAGCAGCAATGACATCCCATCGCCAAGATTGC
 TGAGAGGGTGAAGCTATCAAAGACAAGTCCGAATCGTCATCATCTGATCGGCCAGTCTGGGCTCAGAA
 ATCAGTAGCATAGGGGTATCCAGCAGTGTGGCTGAACACCTGGCCACTCACTTCAGGACTGCTCCAATA
 TCCAAGAGATTTCCAACACTCTACTCACAGGATCTGCCATCTCAGAAAAGCAAGATTAGAGTGTGGA
 GGTGGAACAGAACCGGCTGAATAGCCGGATTGAGCACCTCAAATCCCAAATGACCTCTGACCATAACC
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 GAGTGAGCAGAGCCTCATCTGGGGCAGTTCGAGCGCGGGCGTGGGGTCTCCCTGGAGACCAGTGC
 GGGGATGAAAACATCACTCAGATGCTCAAGCGAGCTCATGACTGCCGGAAGACAGCTGAGAATGCTGCCA
 AGGCCCTGCTCATGAAGCTGGACGGCAGCTGTGGGGGAGCCTTTGCCGTGGCCGCTGCAGCGTGCAGCC
 CTGGGAGAGCCTTCTCCAACAGCCACACCAGCACACCAGCTCCACAGCCAGTAGTTGCGACACCGAG
 TTCCTAAAGAAGACGAGCAGAGGCTGAAGGATTATATCCAGCAGCTCAAGAATGACAGGGCTGCGGTCA
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 AGGCCAGGAGCAGGCCTACCTGGTGCATTGAGCACCTGAAGTCCGAGGTGGAGGAGCAGAAGGAGCA
 GCGGATGCGATCCCTCAGCTCCACCAGCAGCGGCAAGATAAACCTGGCAAGGAGTGTGCTGATGCT
 GCCTCCCAGCTCTGTCCCTAGCTGAACTCAGGACAACGTGCAGCGAGAATGAGCTGGTGCAGGATTCA
 CCAACGCCATTCGTCGAGAAAAGAAGTTGAAGGCCAGAGTCAAGAGCTGGTGAAGTGCCTGGAGAGACT
 CACCAAGAGCAGTGAAATCCGACATCAGCAATCTGCAGAGTTCGTGAATGATCTAAAGCGGGCCAACAGC
 AACCTGGTGGCTGCCTATGAGAAAAGCAAAGAAAAGCATCAAACAACCTGAAGAAGTTAGAGTCGAGAG
 TGATGGCCATGGTGGAGAGACATGAGACCAAGTGAAGTGTCTAAGCAAAGAATAGCTCTGCTAGAGGA
 GGAGAAGTCCAGGCCACACCAATGAACTTCGCTT

ACGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG202890 representing NM_002387
 Red=Cloning site Green=Tags(s)

MNSGVAMKYGNDSSAELSELHSAALASLKGDIVELNKRLQQTERERDLLEKKLAKAQCEQSHLMREHEDV
 QERTTLRYEERITELHSVIAELNKKIDRLQGTTIREEDEYSELSELSQSQHEVNEDSRSMDDQDQTSVSI
 PENQSTMVTADMNCSDLNSELQRVLTGLENVVCGRKKSSCSLSVAEVD RHIEQLTTASEHCDLAIKTVE
 EIEGVLGRDLYPNLAEERSRWEKELAGLREENESLTAMLCSKEEELNRKATMNAIREERDRLRRRVREL
 QTRLQSVQATGPSSPGRLTSTNRPINPSTGELSTSSSSNDIPIAKIAERVKLSKTRSESSSSDRPVLGSE
 ISSIGVSSSVAEHLAHS LQDCSNIQEIFQTLYSHGSAISESKIREFEVETERLNSRIEHLKSQNDLLTIT
 LEECKSNAERMSMLVGKYESNATALRLALQYSEQCIEAYELL LALA ESEQSLILGQFRAAGVGSSPGDQS
 GDENITQMLKRAHDCRKT AENAAKALLMKLDGSCGGAF AVAGCSVQPWESLSSNSHTSTTSSTASSCDTE
 FTKEDEQRLKDYIQQKNDRAAVKLTMLELESIHIDPLSYDVKPRGDSQRLDLENAVLMQELMAMKEEMA
 ELKAQLYLLEKEKKALELKLSTREAQEAYLVHIEHLKSEVEEQKEQRMRSLSSTSSGSKDKPGKECADA
 ASPALSLAELRTTCSENELAAEF TNAIRREKCLKARVQELVSALERLTKSSEIRHQSAEFVNDLKRANS
 NLVAAYEKAKKKHQKLLKLESQMMAMVERHETQVRMLKQRIALLEEENS RPHTNETSL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_002387

ORF Size: 2487 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_002387.1](#), [NP_002378.1](#)

RefSeq Size: 4181 bp

RefSeq ORF: 2490 bp

Locus ID: 4163

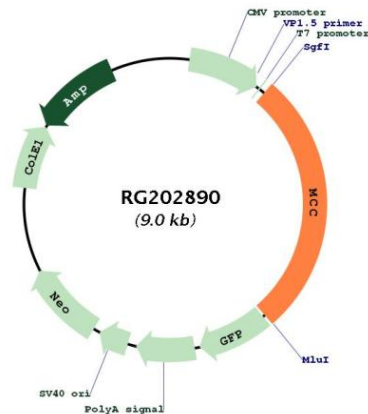
UniProt ID: [P23508](#)

Cytogenetics: 5q22.2

Protein Families: Druggable Genome

Gene Summary: This gene is a candidate colorectal tumor suppressor gene that is thought to negatively regulate cell cycle progression. The orthologous gene in the mouse expresses a phosphoprotein associated with the plasma membrane and membrane organelles, and overexpression of the mouse protein inhibits entry into S phase. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202890