

Product datasheet for **RC202890**

MCC (NM_002387) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCC (NM_002387) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MCC
Synonyms:	MCC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC202890 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAATTCGGAGTTGCCATGAAATATGGAACGACTCCTCGGCCGAGCTGAGTGAGCTCCATTCAGCAG
CCCTGGCATCACTAAAGGGAGATATAGTGAACCTTAATAAACGTCTCCAGCAAACAGAGAGGGAACGGGA
CCTTCTGGAAGAAATTGGCCAAGGCACAGTGCAGCAGTCCCACCTCATGAGAGAGCATGAGGATGTC
CAGGAGCGAACGACGCTTCGCTATGAGGAACGCATCACAGAGCTCCACAGCGTCATTGCGGAGCTCAACA
AGAAGATAGACCGTCTGCAAGGCACCACCATCAGGGAGGAAGATGAGTACTCAGAAGTGCATCAGAAGT
CAGCCAGAGCCAACGAGGTCAACGAGGACTCTCGAAGCATGGACCAAGACCAGACCTCTGTCTCTATC
CCCGAAAACAGTCTACCATGGTACTGCTGACATGGACAAGTGCAGTGCAGTGAAGTGCAGAACTGCAGA
GGGTGCTGACAGGGCTGGAGAATGTTGCTGCGGCAGGAAGAAGAGCAGTGCAGCCTCTCCGTGGCCGA
GGTGGACAGGCACATTGAGCAGCTCACACAGCCAGCAGCAGTGTGACCTGGCTATTAAGACAGTCGAG
GAGATTGAGGGGGTGTGGCCGGGACCTGTATCCCAACCTGGCTGAAGAGAGGTCTCGGTGGGAGAAGG
AGCTGGCTGGGCTGAGGGAAGAGAATGAGAGCCTGACTGCCATGCTGTGCAGCAAAGAGGAAGAAGTAA
CCGGACTAAGGCCACCATGAATGCCATCCGGGAAGAGCGGGACCGGCTCCGGAGGAGGGTCAGAGAGCTT
CAAACCTGACTACAGAGCGTGCAGGCCACAGGTCCCTCCAGCCCTGGCCGCTCACTTCCACCAACCGCC
CGATTAACCCAGCAGTGGGAGCTGAGCACAAGCAGCAGCAGCAATGACATTCATCGCCAAGATTGTC
TGAGAGGGTGAAGCTATCAAAGACAAGTCCGAATCGTCATCATCTGATCGGCCAGTCTGGGCTCAGAA
ATCAGTAGCATAGGGGTATCCAGCAGTGTGGCTGAACACCTGGCCACTCACTTCAGGACTGCTCCAATA
TCCAAGAGATTTCCAACACTCTACTCACCGGATCGCCATCTCAGAAAGCAAGATTAGAGAGTTTGA
GGTGGAAACAGAACCGGCTGAATAGCCGGATTGAGCACCTCAAATCCCAAATGACCTCTGACCATAACC
TTGGAGGAATGTAAGCAATGCCGAGAGGATGAGCATGCTGGTGGGAAAATACGAATCCAATGCCACAG
CGCTGAGGCTGGCCTTGCAGTACAGCGAGCAGTGCATCGAAGCCTACGAACCTCCTCTGGCGCTGGCAGA
GAGTGAGCAGAGCCTCATCTGGGGCAGTTCGAGCGGGGGGCTGGGCTCCTCCCTGGAGACCAGTGC
GGGGATGAAAACATCACTCAGATGCTCAAGCGAGCTCATGACTGCCGGAAGACAGCTGAGAATGCTGCCA
AGGCCCTGCTCATGAAGCTGGACGGCAGCTGTGGGGGAGCCTTTGCCGTGGCCGCTGCAGCGTGCAGCC
CTGGGAGAGCCTTCTCCAACAGCCACACCAGCACACCAGCTCCACAGCCAGTAGTTGCGACACCGAG
TTCATAAAGAAGACGAGCAGAGGCTGAAGGATTATATCCAGCAGCTCAAGAATGACAGGGCTGCGGTCA
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CAGCCAGAGGCTGGATCTGGAAAACGCAGTGTATGCAGGAGCTCATGGCCATGAAGGAGGAGATGGCC
GAGTTGAAGGCCAGCTACTCTACTGGAGAAAGAGAAGAAGGCCCTGGAGCTGAAGCTGAGCACGCGGG
AGGCCAGGAGCAGGCCTACCTGGTGCACATTGAGCACCTGAAGTCCGAGGTGGAGGAGCAGAAGGAGCA
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GCCTCCCAGCTCTGTCCCTAGCTGAAGTCAAGGACAACGTGCAGCGAGAATGAGCTGGCTGCGGAGTTCA
CCAACGCCATTCGTCGAGAAAAGAAGTTGAAGGCCAGAGTTCAAGAGCTGGTGAAGTGCCTGGAGAGACT
CACCAAGAGCAGTGAAATCCGACATCAGCAATCTGCAGAGTTCGTGAATGATCTAAAGCGGGCCAAACGC
AACCTGGTGGCTGCCTATGAGAAAAGCAAAGAAAAGCATCAAACAACCTGAAGAAGTTAGAGTCGAGAG
TGATGGCCATGGTGGAGAGACATGAGACCAAGTGAAGTGTCTAAGCAAAGAATAGCTCTGCTAGAGGA
GGAGAAGTCCAGGCCACACCAATGAACTTCGCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202890 protein sequence
Red=Cloning site Green=Tags(s)

MNSGVAMKYGNDSSAELSELHSAALASLKGDIVELNKRLQQTERERDLLEKKLAKAQCEQSHLMREHEDV
QERTTLRYEERITELHSVIAELNKKIDRLQGTTIREEDEYSELSELSQSQHEVNEDSRSMDDQDQTSVSI
PENQSTMVTADMNCSDLNSELQRVLTGLENVVCGRKKSSCSLSVAEVD RHIEQLTTASEHCDLAIKTVE
EIEGVLGRDLYPNLAEERSRWEKELAGLREENESLTAMLCSEEEELNRKATMNAIREERDRLRRRVREL
QTRLQSVQATGPSSPGRLTSTNRPINPSTGELSTSSSSNDIPIAKIAERVKLSKTRSESSSSDRPVLGSE
ISSIGVSSVAEHLAHS LQDCSNIQEIFQTLYSHGSAISESKIREFEVETERLNSRIEHLKSQNDLLTIT
LEECSNAERMSMLVGKYESNATALRLALQYSEQCIEAYELL LALA ESEQSLILGQFRAAGVGSSPGDQS
GDENITQMLKRAHDCRKT AENAAKALLMKLDGSCGGAF AVAGCSVQPWESLSSNSHTSTTSSTASSCDTE
FTKEDEQRLKDYIQQLKNDRAAVKLTMLELESIHIDPLSYDVKPRGDSQRLDLENAVLMQELMAMKEEMA
ELKAQLYLLEKEKKALELKLSTREAQEAYLVHIEHLKSEVEEQKEQRMRSLSSTSSGSKDKPGKECADA
ASPALSLAELRTTCSENELAAEF TNAIRREKCLKARVQELVSALERLTKSSEIRHQSAEFVNDLKRANS
NLVAAYEKAKKKHQKLLKLESQMMAMVERHETQVRMLKQRIALLEEENS RPHTNETSL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6690_a08.zip

Restriction Sites: Sgfl-Mlul

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_002387.3](#)

RefSeq Size: 8223 bp

RefSeq ORF: 2490 bp

Locus ID: 4163

UniProt ID: [P23508](#)

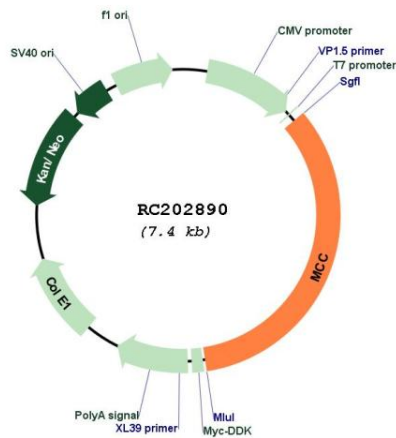
Cytogenetics: 5q22.2

Protein Families: Druggable Genome

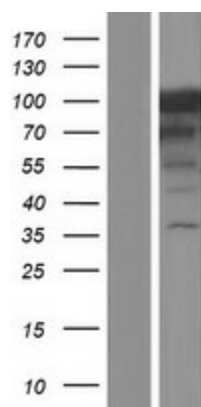
MW: 93.1 kDa

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]

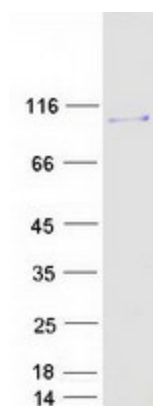
Product images:



Circular map for RC202890



Western blot validation of overexpression lysate (Cat# [LY419354]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202890 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MCC protein (Cat# [TP302890]). The protein was produced from HEK293T cells transfected with MCC cDNA clone (Cat# RC202890) using MegaTran 2.0 (Cat# [TT210002]).