

Product datasheet for **RG211808**

MCC (NM_001085377) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCC (NM_001085377) 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)
ORF Nucleotide Sequence:	>RG211808 representing NM_001085377 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGCGGCCGCGGCGGCAGCGGCTGCGGGGAGCTCCAGCAGCGCGGCCGCGGCGGCAGCGGCA
GCAGCAGCAGCAGCAGCAGCACGTCCAGCACCGGCGAGGAGGAGAGGATGCGGCGCCTCTCCAGACGTG
CGACGGCGACGGGGACGGATACATCAGCAGAAATGACTTGCTAATGGTCTGTGCGCAGCTGAATATGGAA
GAGTCTGTGGCTGAGATCATGAACAGTTGGGAGCAGATGAAAATGGGAAGATTTCTTTTCAGGATTCA
CAAGATGCCGCATGCAGCTTGTTCGAGAAATTAGGAAGGAGGAAGTAGATCTTTCTGCAAAGTCAGACAA
CTCCTGTACAAAGAAGCTGAGGGATAGAATTGCTTCTGGCCACGAGCAGTGACAACAGTTTGGGTGCC
TTATCAGCAGCCAGGGAGAGCTGGGAATACGACTCTGGTGCCAGGGACCTCCAGAGCCCGGATGTGCAGA
GCCAGTCAGCCCTCCAGAAGCTGCTCGAGTATGGCGGAAGCTCTTTGCATCAGCAGGCTGCTCTCCACAA
ACTGCTCACACAGTCCCCGCACATTGGCAACTCTGTAGGAGGAAGCTATCTAGAGCTGGCCAACACACTC
CATTTCAGCAGCCCTGGCATCACTAAAGGGAGATATAGTGGAACTTAATAAACGCTCTCCAGCAAACAGAGA
GGGAACGGGACCTTCTGGAAAAGAAATTGGCCAAGGCACAGTGCAGCAGTCCCACCTCATGAGAGAGCA
TGAGGATGTCCAGGAGCGAACGACACTTCGCTATGAGGAACGCATCACAGAGCTCCACAGCGTCATTGCG
GAGCTCAACAAGAAGATAGACCGTCTGCAAGGCCACCATCAGGGAGGAAGATGAGTACTCAGAACTGC
GATCAGAACTCAGCCAGAGCCAACACGAGGTCAACGAGGACTCTCGAAGCATGGACCAAGACCAGACCTC
TGTCTCTATCCCCGAAAACAGTCTACCATGGTTACTGCTGACATGGACAACCTGCAGTGACCTGAACTCA
GAACTGCAGAGGGTGCTGACAGGGCTGGAGAATGTTGTCTGCGGCAGGAAGAAGAGCAGCTGCAGCCTCT
CCGTGGCCGAGGTGGACAGGCACATTGAGCAGCTCACCACAGCCAGCGAGCACTGTGACCTGGCTATTAA
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AAGAACTGAACCGGACTAAGGCCACCATGAATGCCATCCGGAAGAGCGGACCGGCTCCGAGGAGGGT
CAGAGAGCTTCAAACCTGACTACAGAGCGTGCAGGCCACAGGTCCCTCCAGCCCTGGCCGCCTCACTTCC



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ACCAACCGCCCGATTAACCCAGCACTGGGGAGCTGAGCACAAGCAGCAGCAATGACATTCCCATCG
CCAAGATTGCTGAGAGGGTGAAGCTATCAAAGACAAGTCCGAATCGTCATCATCTGATCGGCCAGTCTCT
GGGCTCAGAAATCAGTAGCATAGGGGTATCCAGCAGTGTGGCTGAACACCTGGCCCACTCACTTCAGGAC
TGCTCCAATATCCAAGAGATTTTCCAAACACTCTACTCACACGGATCTGCCATCTCAGAAAGCAAGATTA
GAGAGTTTGAGGTGGAACAGAACGGCTGAATAGCCGGATTGAGCACCTCAAATCCCAAAATGACCTCCT
GACCATAACCTTGAGGAATGTAAAAGCAATGCCGAGAGGATGAGCATGCTGGTGGGAAAATACGAATCC
AATGCCACAGCGCTGAGGCTGGCCTTGCACTACAGCAGCAGTGCATCGAAGCCTACGAACTCCTCCTGG
CGCTGGCAGAGAGTGAGCAGAGCCTCATCTGGGGCAGTTCCGAGCGGGCGGTGGGTCTCCCTGG
AGACCAGTCGGGGGATGAAAACATCACTCAGATGCTCAAGCGAGCTCATGACTGCCGGAAGACAGCTGAG
AACGCTGCCAAGGCCCTGCTCATGAAGCTGGACGGCAGCTGTGGGGGAGCCTTTGCCGTGGCCGGCTGCA
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AGCACGCGGGAGGCCAGGAGCAGGCCTACCTGGTGACATTGAGCACCTGAAGTCCGAGGTGGAGGAGC
AGAAGGAGCAGCGGATGCGATCCCTCAGCTCCACCAGCAGCGGCAGCAAGACAAACCTGGCAAGGAGTG
TGCTGATGCTGCCTCCCGAGCTGTGTCCTAGCCGAACCTCAGGACAACGTGCAGCGAGAATGAGCTGGCT
GCGGAGTTCACCAACGCCATTGTCGAGAAAAGAAGTTGAAGGCCAGAGTTCAAGAGCTGGTGAGTGCT
TGGAGAGACTACCAAGAGCAGTGAAATCCGACATCAGCAATCTGCAGAGTTCTGTAATGATCTAAAGCG
GGCCAACAGCAACCTGGTGGCTGCCTATGAGAAAGCAAGAAAAAGCATCAAAACAACTGAAGAAGTTA
GAGTCGCAGATGATGGCCATGGTGGAGAGACATGAGACCAAGTGAGGATGCTCAAGCAAGAATAGCTC
TGCTAGAGGAGGAGAACTCCAGGCCACACCAATGAACTTCGCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG211808 representing NM_001085377

Red=Cloning site Green=Tags(s)

MMAAAAAAAGSSSSGGGGGSGSSSSSDTSSTGEEEMRRLFQTCGDGDGYISRNDLLMVCRLNME
ESVAEIMNQLGADENGKISFQDFTRCRMQLVREIRKEEVDLSAKSDNSCTKKLRDRIASWPTSSDNLGA
LSAARESWEYDSGARDLQSPDVQSQALQKLLLEYGSSSLHQQAALHKLLTQSPHIGNSVGGSYLELANTL
HSAALASLKGDIVELNKRLQQTERERDLLEKKLAKAQCEQSHLMREHEDVQERTTLRYEERITELHSVIA
ELNKKIDRLQGTIREEDEYSELRSLSQSQHEVNEDSRMDQDQTSVSIPENQSTMVTADMNCSDLNS
ELQRVLTGLENNVCGRKKSSCSLSVAEVDRIEQLTASEHCDLAIKTVEEIEGVLGRDLYPNLAEERSR
WEKELAGLREENESLTAMLCSKEEELNRTKATMNAIREERDLRRRVRELQTRLQSVQATGPSSPGRLTS
TNRPINPSTGELSTSSSSNDIPIAKIAERVKLSKTRSESSSDRPVLGSEISSIGVSSSVAEHLAHLQD
CSNIQEIFQTLYSHGSAISESKIREFEVETERLNSRIEHLKSQNDLLTITL ECKSNAERMSMLVGKYES
NATALRLALQYSEQCIEAYELLLALAESEQSLILGQFRAAGVGSSPGDQSGDENITQMLKRAHDCRKTA
NAKALLMKLDGSCGGAFAVAGCSVPWESLSSNHTSTSSSTASSCDTEFTKEDEQRLKDYIQQLKNDR
AAVKLTMLELESIHIDPLSYDVKPRGDSQRLDLENVLMQELMAMKEEMAELKAQLYLLEKEKKALELKL
STREAQEQAYLVHIEHLKSEVEEQEQRMRLSSTSSGSKDKPGKECADAASPALSLAELRTTCSENELA
AEFTNAIRREKKLKARVQELVSALERLTKSSEIRHQQAFAEFVNDLKRANSNLVAAYEKAKKKHQNKLLKL
ESQMAMVERHETQVRMLKQRIALLEENSRPHTNETSL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001085377

ORF Size: 3057 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).

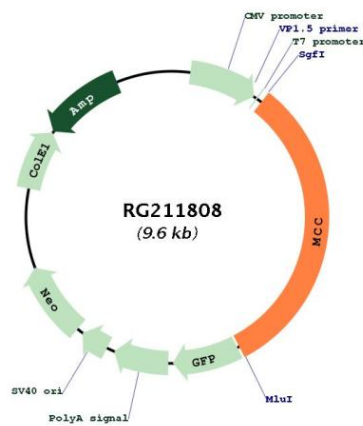
Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_001085377.1](#), [NP_001078846.1](#)

RefSeq Size: 8679 bp

RefSeq ORF:	3060 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 RG211808