

Product datasheet for RC214760

MC5R (NM_005913) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MC5R (NM_005913) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MC5R
Synonyms:	MC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214760 representing NM_005913 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATTCCTCATTTACCTGCATTTCTTGGATCTCAACCTGAATGCCACAGAGGGCAACCTTTCAGGAC
CCAATGTCAAAAACAAGTCTTACCATGTGAAGACATGGGCATTGCTGTGGAGGTGTTTCTCACTCTGGG
TGTCATCAGCCTTTGGAGAACATCTTGGTCATAGGGCCATAGTGAAGAACAAAACCTGCACTCCCC
ATGTACTTCTTCGTGTGCAGCCTGGCAGTGGCGGACATGCTGGTGAAGCATGTCCAGTGCCTGGGAGACCA
TACCATCTACCTACTCAACAACAAGCACCTAGTGATAGCAGACGCCTTTGTGCGCCACATTGACAATGT
GTTTGACTCCATGATCTGCATTTCCGTGGTGGCATCCATGTGCAGCTTACTGGCCATTGCAGTGGATAGG
TACGTCACCATCTTCTACGCCCTGCGCTACCACCACATCATGACGGCGAGGCGCTCAGGGGCCATCATCG
CCGGCATCTGGGTTTTCTGCACGGGCTGCGGCATTGTCTTCATCCTGTACTCAGAATCCACCTACGTCAT
CCTGTGCCTCATCTCCATGTTCTTCGCTATGCTGTTCTCCTGGTGTCTCTGTACATACACATGTTCTCT
CTGGCGCGGACTCACGTCAAGCGGATCGCGGCTCTGCCGGGGCCAGCTCTGCGCGGCAGAGGACCAGCA
TGCAGGGCGCGGTACCCTCACCATGCTGCTGGGCGTGTACCGTGTGCTGGGCCCCGTTCTTCTCTTCA
TCTCACTTTAATGCTTTCTTGCCTCAGAACCCTACTGCTCTCGCTTTCATGTCTCACTTCAATATGTAC
CTCATACTCATCATGTGAATTCGTGATGGACCCTCATATATGCCTCCGCAGCCAAGAGATGCGGA
AGACCTTAAGGAGATTATTTGCTGCCGTGGTTTCAGGATCGCCTGCAGCTTTCCAGAAGGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC214760 representing NM_005913
Red=Cloning site Green=Tags(s)

MNSSFHLHFLDLNLNATEGNLSGPNVKNKSSPCEDMGIAVEVFLTLGVISLLENILVIGAIKKNLHSP
 MYFFVCSLAVADMLVSMSSAWETITIIYLLNNKHLVIADAFVRHIDNVFDSMICISVVASMCSLLAIADR
 YVTIFYALRYHHIMTARRSGAIIAGIWFVCTGCGIVFILYSESTYVILCLISMFFAMLLVSLYIHMFL
 LARTHVKRIAALPGASSARQRTSMQGAVTVMLLGVFTVCWAPFFLHLLTLMLSCPQNLYCSRFMSHFNMY
 LILIMCNSVMDPLIYAFRSQEMRKTTFKEIICCRGFRIACSFPRRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6095_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005913

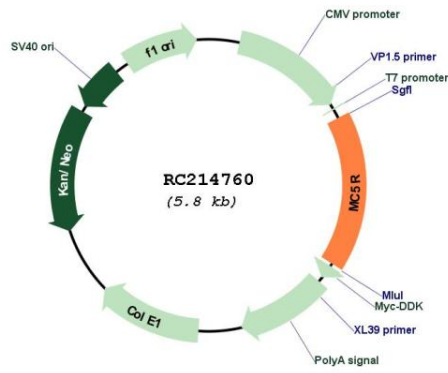
ORF Size: 975 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_005913.3
RefSeq Size:	978 bp
RefSeq ORF:	978 bp
Locus ID:	4161
UniProt ID:	P33032
Cytogenetics:	18p11.21
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	36.4 kDa
Gene Summary:	This gene encodes a member of the seven-pass transmembrane G protein-coupled melanocortin receptor protein family that stimulate cAMP signal transduction. The encoded protein is a receptor for melanocyte-stimulating hormone and adrenocorticotrophic hormone and is suggested to play a role in sebum generation. [provided by RefSeq, Jun 2010]

Product images:



Circular map for RC214760