

Product datasheet for **RG214760**

MC5R (NM_005913) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MC5R (NM_005913) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MC5R
Synonyms:	MC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214760 representing NM_005913 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATTCCTCATTTACCTGCATTTCTTGATCTCAACCTGAATGCCACAGAGGGCAACCTTTCAGGAC
 CCAATGTCAAAAACAAGTCTTACCATGTGAAGACATGGGCATTGCTGTGGAGGTGTTTCTCACTCTGGG
 TGTCATCAGCCTCTTGGAGAACATCTTGGTCATAGGGGCCATAGTGAAGAACAAAACCTGCACTCCCC
 ATGTACTTCTTCGTGTGCAGCCTGGCAGTGGCGGACATGCTGGTGAGCATGTCCAGTGCCTGGGAGACCA
 TCACCATCTACCTACTCAACAACAAGCACCTAGTGATAGCAGACGCCTTTGTGCGCCACATTGACAAATGT
 GTTTGACTCCATGATCTGCATTTCCGTGGTGGCATCCATGTGCAGCTTACTGGCCATTGCAGTGGATAGG
 TACGTCACCATCTTCTACGCCCTGCGCTACCACCACATCATGACGGCGAGGCGCTCAGGGGCCATCATCG
 CCGGCATCTGGGCTTTCTGCACGGGCTGCGGCATTGTCTTCATCCTGTACTCAGAATCCACCTACGTCAT
 CCTGTGCCTCATCTCCATGTTCTTCGCTATGCTGTTCTCCTGGTGTCTCTGTACATACACATGTTCTTC
 CTGGCGCGGACTCACGTCAAGCGGATCGCGGCTCTGCCGGGGCCAGCTCTGCGCGGCAGAGGACCAGCA
 TGCAGGGCGCGGTACCGTCACCATGCTGCTGGGCGTGTACCGTGTGCTGGGCCCCGTCTTCTCTTCA
 TCTCACTTTAATGCTTTCTTGCCTCAGAACCTCTACTGCTCTCGCTTCATGTCTCACTTCAATATGTAC
 CTCATACTCATCATGTGAATTCGTGATGGACCCTCTCATATATGCCTTCCGCAGCCAAGAGATGCGGA
 AGACCTTAAGGAGATTATTTGCTGCCGTGGTTTCAGGATCGCCTGCAGCTTTCCAGAAAGGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG214760 representing NM_005913
 Red=Cloning site Green=Tags(s)

MNSSFHLHFLDLNLNATEGNLSGPNVKNKSSPCEDMGIAVEVFLTLGVISLLENILVIGAIVKNKNLHSP
 MYFFVCSLAVADMLVSMSSAWETITIIYLLNNKHLVIADAFVRHIDNVFDSMICISVVASMCSSLAIIVDR
 YVTIFYALRYHHIMTARRSGAIIAGIWAFACTGCGIVFIFYSESTYVILCLISMFFAMLFLVSLYIHMFL
 LARTHVKRIAALPGASSARQRTSMQGAIVTMTLLGVFTVCWAPFFLHLTLMLSCPQNLCSRFMSHFNMV
 LILIMCNSVMDPLIYAFRSQEMRKTFKEIICCRGFRIACSFPRRD

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005913

ORF Size: 975 bp

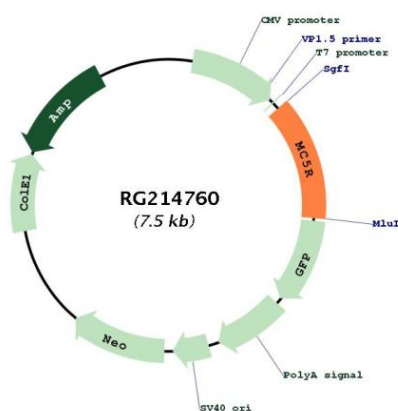
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	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:	<u>NM_005913.3</u>
RefSeq Size:	978 bp
RefSeq ORF:	978 bp
Locus ID:	4161
UniProt ID:	<u>P33032</u>
Cytogenetics:	18p11.21
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
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 RG214760