

Product datasheet for **RR211635**

Mc5r (NM_013182) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mc5r (NM_013182) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mc5r
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR211635 representing NM_013182
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACTCCTCGTCTCACCTGACTTTATTGGATCTTACCCTGAACGCCTCGGAGGACAACATCCTAGGAC
AAAATGTCAATAACAAGTCTCCGCCTGCGAAGACATGGGCATTGCCGTGGAGGTGTTCCCTAACTCTGGG
TCTCGTCAGCCTCTTGGAGAACATCCTGGTCATCGGGCCATAGTGAAAAACAAGAACCTGCACTCACCT
ATGTACTTCTTTGTGGGAGCCTAGCGGTGGCCGACATGCTGGTGAGCATGTCCAACGCCTGGGAGACCA
TCACCATACTTGATAAATAACAACACGTGGTGATAGCAGACACCTTTGTGCGCCACATCGACAACGT
GTCGACTCCATGATCTGCATTTCTGTGGTGGCCCTCCATGTGCAGCCTGTTGGCCATTGCGGTGGACAGG
TACATCACCATCTTCTACGCCCTGCGCTACCACCACATCATGACGGCCAGGCGCTCGGGGTGATTATCG
CCTGCATCTGGACCTTTTGCATAAGCTGCGGTATCGTCTTCATCATTTACTACGAATCCAAGTACGTGAT
CGTCTGCCTCATCTCCATGTTCTTACCATGCTGTTCTTCATGGTGTCTCTATATACACATGTTCCCTC
CTGGCCCGGAACCATGTCAAGCGGATAGCGGCTTCCCCAGATACAACCTGTGAGGCAAAGGGCCAGCA
TGAAGGGTGCTATCACCTCACCATGCTGCTGGGATTTTCATTGTCTGCTGGTCCCCCTTCTTCTTCA
CCTTATCCTAATGATCTCGTCCCTCAGAACGTCTATTGCGCTTGTCTTATGTCTTACTTTAACATGTAC
CTTATACTGATCATGTGAATTCGTGATCGATCCCCTCATCTACGCCCTCCGACGCAAGAGATGCGGA
GGACCTTAAGGAGATCATCTGTTGTCATGGGTTCAAGGCAACTGTACGCTCCTTGGCAGGTAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211635 representing NM_013182
 Red=Cloning site Green=Tags(s)

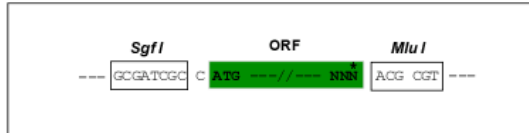
MNSSSHL TLLDL TLNASEDNILGQNVNKKSSACEDMGIAVEVFL TLGLVSLLENILVIGAI VKNKNLHSP
 MYFFVGLAVADMLVMSNAWETITIIYL INNKHVVIADTFVRHIDNVFDSMICISVVASMC SLLAIAVDR
 YITIFYALRYHHIMTARRSGVIIACIWTFCISC GIVFIIYYESKYVIVCLISMFF TMLFFMVSLYIHMFL
 LARNHVKRIAASPRYNSVRQRASMKGAIL TMLLGIFIVCWSPFFLHLILMISCPQNVYCACFMSYFNMY
 LILIMCNSVIDPLIYALRSQEMRRTFK EII CCHGFRRTCTLLGRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_013182

ORF Size: 975 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_013182.3](#)

RefSeq Size: 1034 bp

RefSeq ORF: 978 bp

Locus ID: 25726

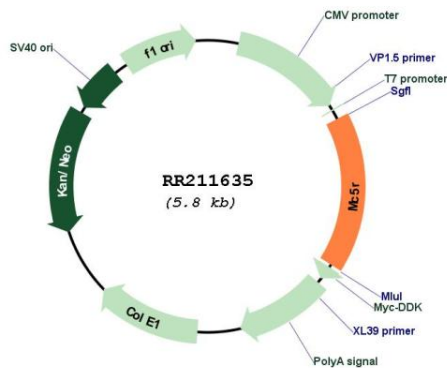
UniProt ID: [P35345](#)

Cytogenetics: 18q12.1

MW: 37.1 kDa

Gene Summary: G-protein coupled receptor for Adrenocorticotrophic hormone (ACTH) and melanocortin peptides (alpha, beta and gamma MSH) [RGD, Feb 2006]

Product images:



Circular map for RR211635