

Product datasheet for **RR216278**

Mc2r (NM_001100491) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mc2r (NM_001100491) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mc2r
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR216278 representing NM_001100491
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCACATTATCAATTCGTATGAACACACCAACAACACAGCAAGAAATAACTCTGATTGTCCTGATG
TAGTTGTGCCAGAAGAGATATTTTTACAATCTCCATCATTGGAGTTTTGGAGAACCTGATCGTCTCTCT
GGCCGTGATCAAAAATAAAAATCTCCAGTCCCCCGTGTACTTTTTCATCTGCAGTTTGGCATTTCGCAC
ATGTTGGCAGTCTGTATAAGATCTTGGAAAATATCCTGATCATGTTAGAAACATGGGCTATCTCAAGC
CTCGTGGCAGTTTGGAAAGTACAGCAGATGACATCATTGACTGCATGTTGTCCTCTCTTTGCTGGGCTC
GATCTTCAGCCTGTCTGTGATTGCAGCTGACCGCTACATCACCATCTTCCATGCCCTGCAATACCACAGC
ATTGTGACCATGCGACGCACCGTCATCACCTAACGGTTATCTGGATGTTCTGTACAGGGAGCGGCATCA
CCATGGTATCTTCTCCACCATATCCCCACAGTGTACCTTACCTCGCTATTCCTTTGATGCTGGT
TTTTATCTGTGTCTCTACATCCACATGTTCTTACTTGCCGCTCCCATGCTCGGAAGATCTCTACCCTT
CCTAGAGCCAACATGAAGGGTGCCATGACATTGACCATCTTCTGGAGTCTTCATCTTCTGTTGGGCTC
CCTTTGTGCTCCATGTTCTTAAATGACCTTCTGCCAAATAACCCTTACTGTGTTTGTACATGTCTCT
CTTCCAGGTCAATGGCATGTTGATTATGTGCAACGCAGTTATTGATCCCTTTATATATGCCTTTCGGAGC
CCAGAGCTCAGAGAGGCATTCAAAAAGATGCTCTTCTGCAACAGATAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR216278 representing NM_001100491
 Red=Cloning site Green=Tags(s)

MKHIINSYEHTNNTARNNSDCPDVVVPEEIFFTISIIGVLENLIVLLAVIKNKNLQSPVYFFICSLAISD
 MLGSLYKILENILIMFRNMGYLKPRGSLESTADDIIDCMFVLSLLGSIFSLSVIAADRYITIFHALQYHS
 IVTMRRTVITLTVIWMFCTGSGITMVIFSHHIPTVLTFTSLFPLMLVFILCLYIHMFLARSHARKISTL
 PRANMKGAMTLTILLGVFIFCWAPFVLHVLLMTFCPNNPYCVCYMSLFQVNGMLIMCNAVIDPFIYAFRS
 PELREAFKKMLFCNRY

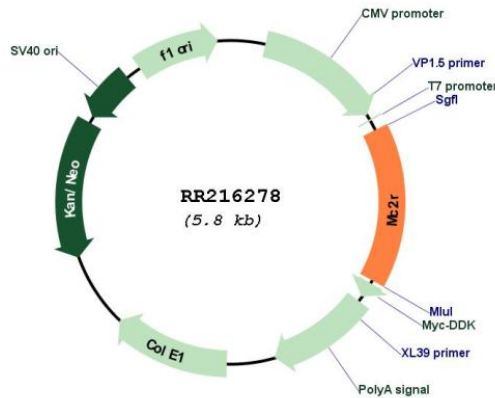
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001100491

| | |
|-------------------------------|--|
| ORF Size: | 888 bp |
| OTI Disclaimer: | <p>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.</p> <p>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</p> |
| 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_001100491.1 , NP_001093961.1 |
| RefSeq Size: | 1148 bp |
| RefSeq ORF: | 891 bp |
| Locus ID: | 282839 |
| Cytogenetics: | 18q12.1 |
| MW: | 33.8 kDa |
| Gene Summary: | receptor of adrenocorticotrophic hormone in the adrenal cortex; may mediate peripheral stress responses [RGD, Feb 2006] |