

## Product datasheet for MR229087

### Mc2r (NM\_001271717) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mc2r (NM_001271717) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mc2r
Synonyms:	ACTH-R; ACTHR; MC2-R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229087 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAGCATATTATCAATTCGTATGAACACACCAATGACACCGCAAGAAATAACTCCGATTGTCCTGATG  
TAGTTTTGCCAGAAGAGATATTTTTACAATCTCTGTCATTGGCATATTGGAGAACTTGATTGTCCTCCT  
GGCTGTGATCAAAAATAAAATCTCCAGTCCCCATGATTTTTTCATCTGCAGTTGGCCATTTCTGAC  
ATGTTGGCAGTCTGTATAAGATCTTGGAAAACATCCTGATCATGTTCAGAAACATGGGTTATCTTAAGC  
CTCGTGGCAGTTTTGAAAGCACAGCAGATGACATCATTGACTGCATGTTTCATCCTCTCTTTGCTGGGCTC  
TATCTTCAGCCTGTCTGTATTGACAGTACCGTTACATCACCATCTCCATGCCCTGCAATACCATAGC  
ATTGTGACCATGCGCCGACCATCATCACCTAACAATTATCTGGATGTTCTGCACAGGGAGCGGCATCA  
CCATGGTGATCTTCTCCACCATCCACAGTGCTCACCTTACATCGCTGTTCCCTTTGATGCTGGT  
TTTTATCTGTGTCTCTACATCCACATGTTCTTACTTGCCCGCTCCCATGCTAGGAAGATCTTACCCTT  
CCTAGAACCAACATGAAGGGTGCCATGACACTAACCATCCTTCTTGAGTCTTTCATCTTCTGTTGGGCC  
CCTTTGTGCTCCATGTTCTTAAATGACCTTCTGCCAAATAACCCTTACTGTGTTTGCTACATGTCTCT  
CTTCCAGGTCAATGGCATGTTGATCATGTGCAATGCAGTATTGACCCCTTATATATGCCTTTCGGAGC  
CCAGAGCTCAGAGATGCATTCAAAGGATGCTCTTCTGCAACCGGTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229087 protein sequence  
 Red=Cloning site Green=Tags(s)

MKHIINSYEHTNDTARNNSDCPDVVLPEEIFFTISVIGILENLIVLLAVIKNKNLQSPMYFFICSLAISD  
 MLGSLYKILENILIMFRNMGYLKPRGSFESTADDIIDCMFILSLLGSIFSLSVIAADRYITIFHALQYHS  
 IVTMRRTIITLTIWFMCTGSGITMVIFSHHIPTVLTFTSLFPLMLVFILCLYIHMFLARSHARKISTL  
 PRTNMKGAMTLTILLGVFIFCWAPFVLHVLLMTFCPNNPYCVCYMSLFQVNGMLIMCNAVIDPFIYAFRS  
 PELRDAFKRMLFCNRY

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\_001271717

**ORF Size:** 888 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\\_001271717.1](#), [NP\\_001258646.1](#)

**RefSeq Size:** 1608 bp

**RefSeq ORF:** 891 bp

**Locus ID:** 17200

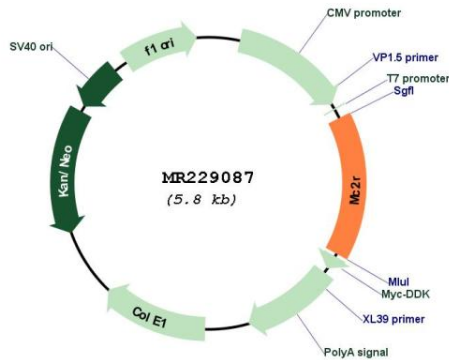
**UniProt ID:** [Q64326](#)

**Cytogenetics:** 18 41.89 cM

**MW:** 34 kDa

**Gene Summary:** Receptor for corticotropin (ACTH). This receptor is mediated by G proteins (G(s)) which activate adenylate cyclase (cAMP).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR229087