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Product datasheet for MR221948

Mc2r (NM_008560) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mc2r (NM_008560) 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:

>MR221948 representing NM_008560
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGCATATTATCAATTCGTATGAACACACCAATGACACCGCAAGAAATAACTCCGATTGTCCTGATG
TAGTTTTGCCAGAAGAGATATTTTTCACAATCTCTGTCATTGGCATATTGGAGAACTTGATTGTCCTCCT
GGCTGTGATCAAAAATAAAAATCTCCAGTCCCCCATGTATTTTTTCATCTGCAGTTTGGCCATTTCTGAC
ATGTTGGGCAGTCTGTATAAGATCTTGGAAAACATCCTGATCATGTTCAGAAACATGGGTTATCTTAAGC
CTCGTGGCAGTTTTGAAAGCACAGCAGATGACATCATTGACTGCATGTTCATCCTCTCTTTGCTGGGCTC
TATCTTCAGCCTGTCTGTCATTGCAGCTGACCGTTACATCACCATCTTCCATGCCCTGCAATACCATAGC
ATTGTGACCATGCGCCGCACCATCATCACCCTAACAATTATCTGGATGTTCTGCACAGGGAGCGGCATCA
CCATGGTGATCTTCTCCCACCACATCCCCACAGTGCTCACCTTCACATCGCTGTTCCCTTTGATGCTGGT
TTTTATCCTGTGTCTCTACATCCACATGTTCTTACTTGCCCGCTCCCATGCTAGGAAGATCTCTACCCTT
CCTAGAACCAACATGAAGGGTGCCATGACACTAACCATCCTTCTTGGAGTCTTCATCTTCTGTTGGGCCC
CCTTTGTGCTCCATGTTCTCTTAATGACCTTCTGCCCAAATAACCCTTACTGTGTTTGCTACATGTCTCT
CTTCCAGGTCAATGGCATGTTGATCATGTGCAATGCAGTTATTGACCCCTTTATATATGCCTTTCGGAGC
CCAGAGCTCAGAGATGCATTCAAAAGGATGCTCTTCTGCAACCGGTAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>MR221948 representing NM_008560
Red=Cloning site Green=Tags(s)

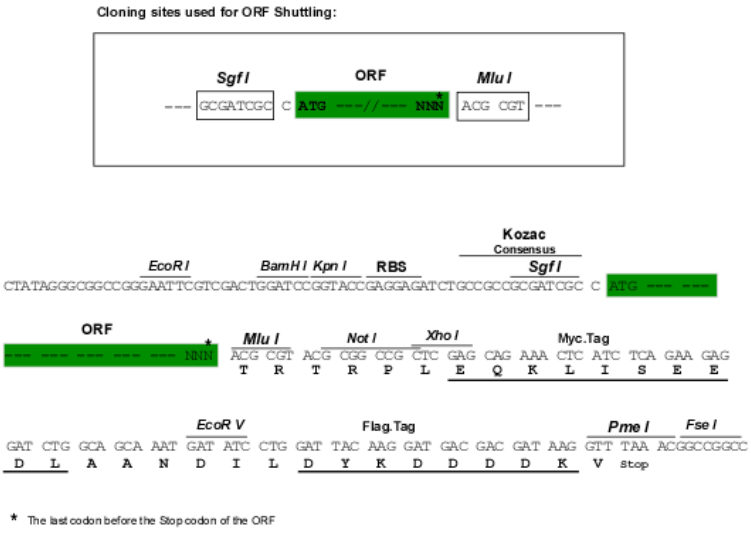
MKHIINSYEHTNDTARNNSDCPDVVLPEEIFFTISVIGILENLIVLLAVIKNKNLQSPMYFFICSLAISD
MLGSLYKILENILIMFRNMGYLKPRGSFESTADDIIDCMFILSLLGSIFSLSVIAADRYITIFHALQYHS
IVTMRRTIITLTIIWMFCTGSGITMVIFSHHIPTVLTFTSLFPLMLVFILCLYIHMFLLARSHARKISTL
PRTNMKGAMTLTILLGVFIFCWAPFVLHVLLMTFCPNNPYCVCYMSLFQVNGMLIMCNAVIDPFIYAFRS
PELRDAFKRMLFCNRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9023_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008560

ORF Size: 888 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

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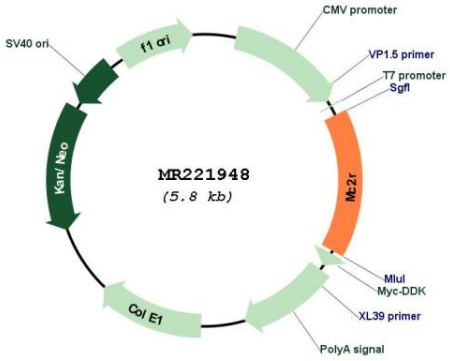
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid 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_008560.3, NP_032586.1
RefSeq Size:	1639 bp
RefSeq ORF:	891 bp
Locus ID:	17200
UniProt ID:	Q64326
Cytogenetics:	18 41.89 cM
MW:	34.4 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 MR221948

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