

Product datasheet for **MR226738**

Cmk1r1 (NM_008153) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cmk1r1 (NM_008153) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cmk1r1
Synonyms:	ChemR23; DEZ; Gpcr27; mcmk1r1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226738 representing NM_008153 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGAGTACGACGCTTACAACGACTCCGGCATCTATGATGATGAGTACTCTGATGGCTTTGGCTACTTTG
 TGGACTTGGAGGAGGCGAGTCCGTGGGAGGCCAAGGTGGCCCCGGTCTTCCTGGTGGTGATCTACAGCTT
 GGTGTGCTTCTCGGTCTCCTAGGCAACGGCCTGGTGATTGTCATCGCCACCTTCAAGATGAAGAAGACC
 GTGAACACTGTGTGGTTGTCAACCTGGCTGTGGCCGACTTCTGTTCACATCTTTTGGCGATGCACA
 TCACCTACGCGGCATGGACTACCACTGGGTGTTCCGGAAGGCCATGTGCAAGATCAGCAACTTCTTGCT
 CAGCCACAACATGTACACCAGCGTCTTCCTGCTGACTGTCATCAGCTTTGACCGCTGCATCTCCGTGCTG
 CTCCCCGTCTGGTCCCAGAACCACCGCAGCATCCGCCTGGCTACATGACCTGCTCGGCCGTCTGGGTCC
 TGGCTTTCTTCTTGAGTCCCCGTCCCTTGCTTCCGGGACACCGCCAACATTATGGGAAGATAACCTG
 CTTCAACAACCTTCAGCTTGGCCGCGCTGAGTCTCCCAACATCCCGCCCACTCGCAAGTAGTTCCACA
 GGGTACAGCAGACAGTGGCGGTCACTGTACCCGCTTCTTTGGCGTTCCTGATCCCCGTCTTCATCA
 TCACGGCTGCTACCTTACCATCGTCTTCAAGTGCAGCGCAACCGCTGGCCAAGAACAAGAAGCCCTT
 CAAGATCATTATCACCATCATCATCACCTTCTTCTCTGCTGGTGCCCTACCACACCTCTACCTGCTG
 GAGCTCCACCACACAGCTGTGCCAAGCTCTGTCTTCAGCCTGGGGCTACCCCTGGCCACGGCCGTCGCCA
 TCGCCAACAGCTGCATGAACCCATTCTGTACGTCTTCATGGGCCACGACTTCAGAAAAATCAAGGTGGC
 CCTCTTCTCCCGCTGGCCAACGCCCTGAGTGAGGACACAGGCCCTCTCTACCCAGTCACAGGAGC
 TTCACCAAGATGTCGTCTTTGAATGAGAAGGCTTCGGTGAATGAGAAGGAGACCACTACCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR226738 representing NM_008153
Red=Cloning site Green=Tags(s)

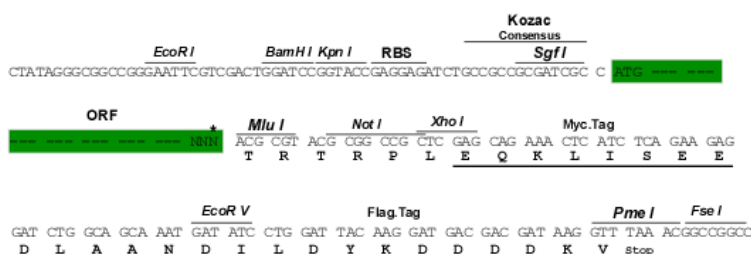
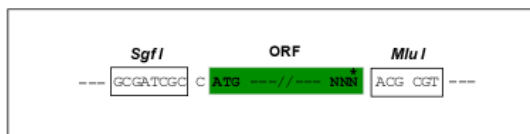
MEYDAYNDSGIYDEYSDGFGFYVDLEEASPWAEKAVPVFLVVIYSLVCFLLGNGLVIVIAITFKMKKT
VNTVWFVNLAVADFLFNIFLPMHITYAAMDYHWVFGKAMCKISNFLLSHNMYTSVFLLTVISDFRCISVL
LPVWSQNHRSRLAYMTCSAVWVLAFFLSSPSLVFRDTANIHGKITCFNNSFLAAPESSPPHAPHSQVVST
GYSRHVAVTVTRFLCGFLIPVFIITACYLTIVFKLQRNRLAKNKKPFKIIITIIITFFLCWCPYHTLYLL
ELHTTAVPSSVFLGLPLATAVAIAANSCMNPILVYFMGHDFRKFVKVFLSRLANALSEDTPGSSYPHSRS
FTKMSSLNEKASVNEKETSTL

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 008153

ORF Size: 1113 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_008153.3](#), [NP_032179.1](#)

RefSeq Size: 2845 bp

RefSeq ORF: 1116 bp

Locus ID: 14747

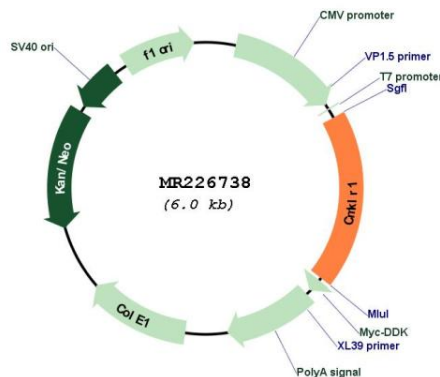
UniProt ID: [P97468](#)

Cytogenetics: 5 F

MW: 42.3 kDa

Gene Summary: Receptor for the chemoattractant adipokine chemerin/RARRES2 and for the omega-3 fatty acid derived molecule resolvin E1. Interaction with RARRES2 induces activation of intracellular signaling molecules, such as SKY, MAPK1/3 (ERK1/2), MAPK14/P38MAPK and PI3K leading to multifunctional effects, like reduction of immune responses, enhancing of adipogenesis and angiogenesis. Resolvin E1 down-regulates cytokine production in macrophages by reducing the activation of MAPK1/3 (ERK1/2) and NF-kappa-B (By similarity). Positively regulates adipogenesis and adipocyte metabolism.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226738