

Product datasheet for MR224004

Klra6 (NM_008464) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Klra6 (NM_008464) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Klra6
Synonyms:	ly-49f; Ly49; Ly49f
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224004 representing NM_008464 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGAGCCGGAGGTCACCTTACTCAACTGTGAGACTTCATAAGTCTTCAAGGTTGCAGAACTTGTAAGGCATGAGGAGACTCAAGGGCCAGAGAAGCTGGCTACAGAAAGTGTTCAGTATGCTGGCAGCTCATTGTGAAAGCTCTTGAATCCTCTGTTTCCTTCTTATAACAGTTGCAGTGTGGCAGTAAAGATTTTTCAGTATGGTCAACACAACCAAGAAATCCATGAAACTCTAACTACCACCATAACTGCAGCAACATGCAAAGTATTTCACTTAAAGGAAGAAATGTTGACAAATAGGTCTATAGACTCTAGGCCAGGCAATGAACTTCTGGAATCCCTCAACAGAGAACAGAACAGAGGGTACAGTGAAACTAAGACAGATTTAGATTCCCTACAGGACACAGGGACAGGTGTTAAATACTGGTTCTGCTACCGTACTAAATGTTATTATTTTCATCATGAACAAAAATACATGGAGTGGATGTAACAGAACTGCCAGCATTACAGCTTACCCCTTGTGAAGATAGACGATGAAATGAACTGAAATTCCTTCAATTCAGGTTATTCCAGACAGTTACTGGATTGGATTGTCATATGATAAGGAAAAAAGGAGTGGGCATGGATTGCAATGGCCAATCTAACTTGACATGAAAATAAGGAAAATGAACTTTAAGCCTGAGGATGTGTATTTTTATCTAAAAGAAGACTAGAAGATACTAACTGTAAAAATCCCCTACTGTATTTGTGGGAAGAACTGGATAAATTTCTCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224004 representing NM_008464
Red=Cloning site Green=Tags(s)

MSEPEVTYSTVRLHKSSRLQKLVRHEETQGPREAGYRKCSVCWQLIVKALGILCFLLITVAVLAVKIFQ
 YGQHNQEIHETLNYHHNCSNMQSDFNLKEEMLTNRSIDSRPGNELLESLNREQNRGYSETKDLSSQDT
 GTGVKYWF CYR TKCYFF IMNKNTWSGCKQNCQHYS LPLVKIDDENELKFLQFQVIPDSYWI GLSYDKEKK
 EWAWIDNGQSKLDMKIRKMNFKPGGCVFLSKRRLED TNCKNSHYCICGKKL DKFPH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9075_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008464

ORF Size: 798 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_008464.2](#), [NP_032490.1](#)

RefSeq Size: 1116 bp

RefSeq ORF: 801 bp

Locus ID: 16637

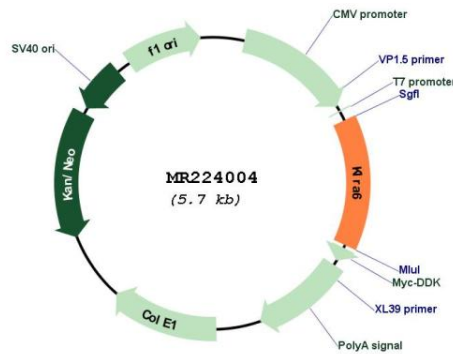
UniProt ID: [Q60653](#)

Cytogenetics: 6 63.44 cM

MW: 31.3 kDa

Gene Summary: This gene belongs to the highly polymorphic family of C-type lectin-like Ly49 genes that are expressed in natural killer (NK) cells. The encoded protein is a homodimeric type II transmembrane receptor located at the cell surface and inhibits NK cell activation upon ligand binding. This gene is located in a cluster of several Klra paralogs on chromosome 6. Different strains of mice show variation in the number of paralogs, including strain specific duplications, deletions and pseudogene sequences. [provided by RefSeq, Apr 2015]

Product images:



Circular map for MR224004