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Product datasheet for MR203925

Klra2 (NM_008462) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Klra2
Synonyms:	Klra30; Ly49; Ly49b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR203925 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTGAGCAGGAGGTCACTTACACAACTCTGAGATTTCATAAGTCTTCAGGGTTGCAGAACCCAGTGA
GGCCTGAGGAGACTCAAAGGCCCAGAGATGTGGGCCACAGAGAGTGTTCAGTCCCCTGGAAGTTCATTGT
GATAGTTCTTGGAATCCTCTGTTTCCTTCTGCTGGTAACTGTGGCAGTGTTGGTGATACACATTTTCCGG
GATGGACAAGAGAAACATGAACAGGAGAAAACTCTAAATAACCTCCGTCAAGAGTACCAGGTCATGAAAA
ATGACAGCTCCTTAATGGAAGAAATGTTAAGAAATAAGTCTTCAGAGTGTAAGGCCCTCAATGATAGCCT
GCACTACCTCAACAGAGAACAGAACAGATGCCTCAGGAAAACCAAGATTGTTTTAGATTGCTCACAGGAC
AAAGGCAAGCAAGTGGAAGGATACTGGTTCTGCTGTGGCATGAAATGTTATTATTTCATCATGGATGATA
AAAAATTGAAAGGATGTAAACAGATCTGCCAGGCTTACAACTTAACTCTTTTGAAGACAAATGATGAGGA
TGAATTGAAGTTCCTTAAATCCCAACTTCAAAGAAACACATACTGGATTGCACTGACACATCACGAAAGC
AAAGAGGAATCGCAACAGATTGGTGATAGACCATCTAAACCTGTTTCAGCAGCAAGGAATTCAGTACCTA
ATAGAGAAAAGTGTGCATATCTAAATTCATTTTCTACAGAAGAGGATGACCGTGCTAGAAATCATGGTTG
TATTTGTGAAAAGAGATTGAATAAATTCCCTATTCCAGGGAGCTGTGCCAAGGGAAGAACTCAATCTGCT
CTGCAGAGGGATGAAGATGAAAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

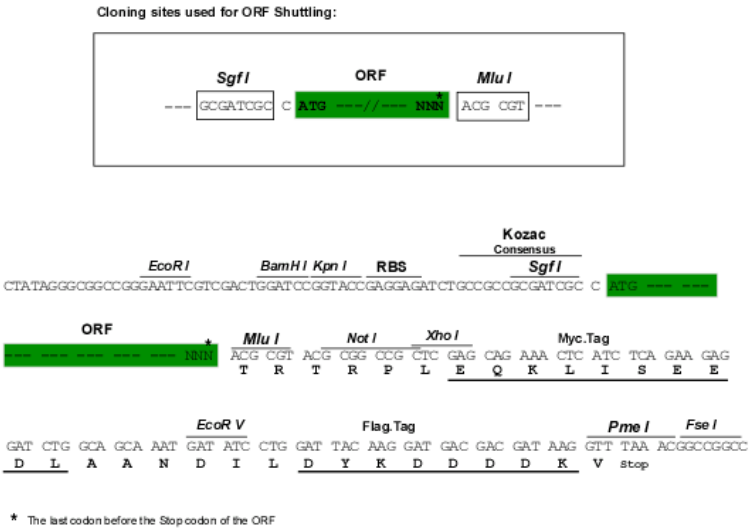
>MR203925 protein sequence
Red=Cloning site Green=Tags(s)

MSEQEVTYTTLRFHKSSGLQNPVRPEETQRPRDVGHRECSVPWKFIVIVLGILCFLLLVTVAVLVIHIFR
DGQEKHEQEKTLNNLRQEYQVMKNDSSLMEEMLRNKSSECKALNDSLHYLNREQNRCLRKTKIVLDCSQD
KGKQVEGYWFCCGMKCYYFIMDDKKLKGCKQICQAYNLTLLKTNDEDELKFLKSQLQRNTYWIALTHHES
KEESQQIGDRPSKPVSAARNSVPNREKCAYLNSFSTEEDDRARNHGCICEKRLNKFPIPGSCAKGRTQSA
LQRDEDES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008462

ORF Size: 864 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_008462.4

RefSeq Size: 1787 bp

RefSeq ORF: 867 bp

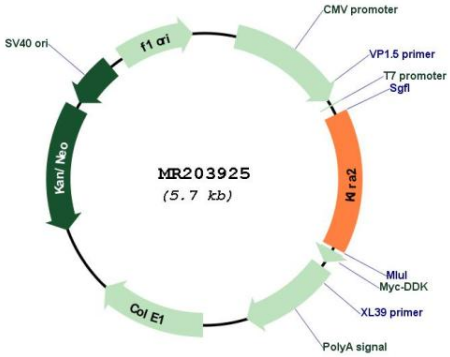
Locus ID: 16633

Cytogenetics: 6 63.44 cM

MW: 33.5 kDa

Gene Summary: The gene is a member of the large lectin-like type 2 transmembrane receptor family of the natural killer gene complex. The gene is located distantly telomeric to its family's gene cluster on chromosome 6. The gene differs from the other genes in its cluster as its promoter region contains long and short interspersed repetitive elements suggesting a possible rearrangement or gene conversion. It is unknown whether this gene's encoded protein is involved with natural killer cell differentiation as are its other family members. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2010]

Product images:



Circular map for MR203925