

## Product datasheet for **RR209367**

### **Klrk1 (NM\_133512) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Klrk1 (NM\_133512) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Klrk1  
**Synonyms:** NKG2D; Nkrp2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR209367 representing NM\_133512  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCAAATGCCATAATTATGACCTCAAGCCAGCAAAGTGGGATACTTCTCAAGAGCATCAGAAACAAA  
GATCTGCACTCCCTACCAGCCGACCTGGAGAGAATGGTATCATAAGACGAAGTCTTCTATAGAAGAACT  
CAAAATATCTCCACTGTTTCGTTGTTTCGAGTCCTGTTGCAGCCATGACCATTCGTTCCCGTTATCACA  
TTGACATGGCTTGCTGTTTTCACTTTGTTATGCAACAAGGAAGTTTCAGTTTCTCAAGAGAGGGCT  
ACTGTGGCCCATGCCCTAACGACTGGATATGTCACAGAAACAAGTGTACCAATTTTTAATGAGAACAA  
AGCCTGGAACAGAGCCAAGCTTCTGTTGTCTCAAAATTCAGCCTGCTGAAGATATACAGTAAAGAA  
GAACAGGATTTCTAAAGCTGGTTAAGTCTATCACTGGATGGGACTAGTCCAGAGCCCAGCAAATGGCT  
CCTGGCAGTGGGAAGATGGCTCCTCTATCACCCAACGAGTTAACACTGGTGAAAACACCAAGCGGAAC  
CTGTGCTGTCTATGGCTCAAGCTTAAAGCCTACACAGAAGACTGTTCAAATCCAACACATACATCTGT  
ATGAAAAGGGCAGTG

**ACGCGT**ACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR209367 representing NM\_133512  
Red=Cloning site Green=Tags(s)

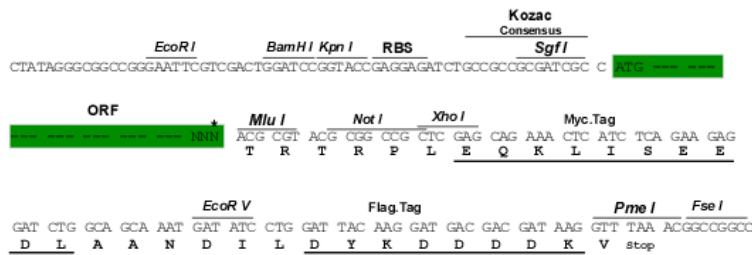
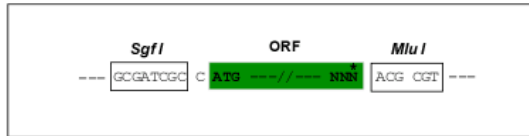
MSKCHNYDLKPAKWDTSQEHQKQRSALPTSRPGENGIIRRRSSIEELKISPLFVVRVLVAAMTIRFTVIT  
 LTWLAVFITLLCNKEVSVSSREGYCGPCPDWICHRRNNCYQFFNENKAWNQSQASCLSQNSSLLKIYSKE  
 EQDFLKLKSYHWMGLVQSPANGSWQWEDGSSLSPNELTLVKTPSGTCAVYGSSFKAYTEDCSNPNTYIC  
 MKRAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

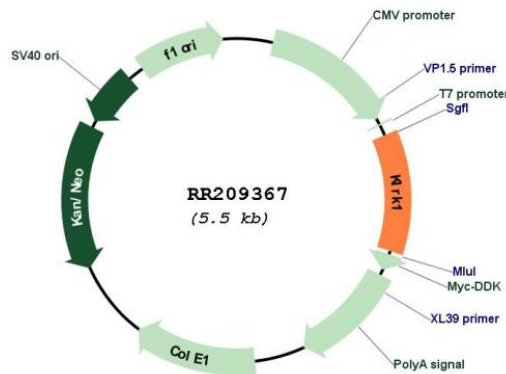
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**



**ACCN:** NM\_133512

**ORF Size:** 645 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_133512.2</a> , <a href="#">NP_598196.1</a>
<b>RefSeq Size:</b>	1159 bp
<b>RefSeq ORF:</b>	648 bp
<b>Locus ID:</b>	24934
<b>UniProt ID:</b>	<a href="#">O70215</a>
<b>Cytogenetics:</b>	4q42
<b>MW:</b>	24.4 kDa
<b>Gene Summary:</b>	functions as a natural cytotoxicity receptor to stimulate perforin-mediated elimination of ligand-expressing tumor cells [RGD, Feb 2006]