

## Product datasheet for **RR208830**

### Cd8a (NM\_031538) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cd8a (NM\_031538) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cd8a  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR208830 representing NM\_031538  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTCACGGGTGATCTGCTTTCTGTCGCTGAACCTGCTACTGCTGGATGTTATCACTAGGCTCCAGG  
TTCCGGACAGTTACAGTTGTACCAAAGAAAGTGGACGCTGAAATTGGCCAGGAGGTGAAGCTAACATG  
CGAAGTCTGCGGGACACTTCGCAAGGATGCTCTTGGCTCTCCGGAACCTCAGCTCCGAATCTGTTCT  
CCACCTTCATCATCTATGTATCTTCATCCCGGAGCAAGCTGAACGATATACTGGATCCGAATCTGTTCT  
CTGCCCGAAGGAAAACAACAAATACATCCTCACCTGAGCAAGTTCAGCACTAAAAACCAAGGCTACTA  
TTTCTGCTCAATCACCAGCAACTCGGTGATGTACTTCAGTCTCTGGTCCGGTGTTCAGAAAGTGAAC  
TCTATTACACCAAGCCGGTACGCGAGCTCCACACCAAGTGCCTCCTACAGGGACACCCCGCCCC  
TACGACCAGAAGCTTCCGACCCGGGCGAGTGGCTCAGTGGAGGGAATGGGATTGGCTTCGCCTGCGA  
TATTTACATCTGGGCACCCTTGGCCGAATCTGCGCGTCTTCTGCTGTCCCTGGTCATCACTCTCATC  
TGCTGCCACAGGAACCGAAGCGTGTGCAAATGTCCAGGCCCTTGCAAGCCAGACCTTCAGAGA  
AATTCGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR208830 representing NM\_031538  
Red=Cloning site Green=Tags(s)

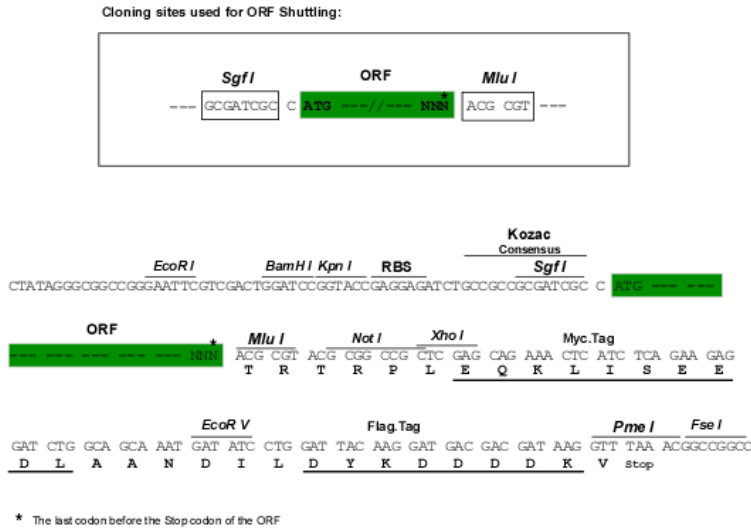
MASRVICFLSLNLLLLDVITRLQVSGQLQLSPKKVDAEIGQEVKLTCEVLRDTSQGCSSLFRNSSSELLQ  
PTFIIYVSSSRSLNDILDPNLF SARKENNYILTL SKFSTKNQGYFCSITSNSVMYF SPLVPVFQKVN  
SIITKPVTRAPTPVPPPTGTPRPLRPEACRPGASGSVEGMGLGFACDIYIWAPLAGICAVLLLSLVITLI  
CCHRRRRRVCKPRPLVKPRPSEK FV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

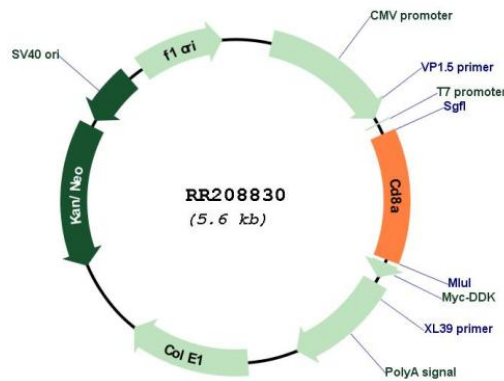


Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_031538

ORF Size: 708 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.

<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>	<u><a href="#">NM_031538.2</a></u> , <u><a href="#">NP_113726.1</a></u>
<b>RefSeq Size:</b>	1413 bp
<b>RefSeq ORF:</b>	711 bp
<b>Locus ID:</b>	24930
<b>UniProt ID:</b>	<u><a href="#">P07725</a></u>
<b>Cytogenetics:</b>	4q31
<b>MW:</b>	26.2 kDa
<b>Gene Summary:</b>	increased expression on mast cells is induced by nitric oxide; may play a role in inflammatory response [RGD, Feb 2006]