

## Product datasheet for **RR203349**

### **Kremen1 (NM\_053649) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kremen1 (NM_053649) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kremen1
Synonyms:	Kremen
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR203349 representing NM\_053649  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCCGCCCGCCGCCCGCTCGCGCTGCTCTCCGCCGCTGCGCTCACTCTGGCGGCCCGGCCCGCAC  
 CCGGTCCCGCCCGCCAGCCCGAGTGTTCACAGCCAATGGTGCAGATTATAGGGGAACACAGAGCTGGAC  
 AGCACTGCAAGGTGGCAAGCCATGTCTGTTCTGGAACGAGACTTCCAGCATCCATAACAACACTGAAA  
 TACCCCAACGGGAAGGAGGTCTGGGTGAGCATAACTATTGCAGAAATCCAGATGGAGATGTGAGCCCTT  
 GGTGCTACGTGGCAGAGCATGAGGATGGCGTCTACTGGAAGTACTGTGAAATTCCTGCGTGTGAGATGCC  
 TGGAAACCTTGGCTGCTACAAGGATCATGGAACCCACCTCCTCTCACGGGCACCAGTAAGACGTCCAAC  
 AAGCTCACCATCCAACTGTATCAGCTTTTGTGGAGTCAAGATTCAAGTTTGTGGATGGAGTCAAG  
 GCTACGCATGCTTCTGTGGGAATAATCCTGACTACTGGAAGCACGGGGAGGCAGCCAGCACCGAGTGCAA  
 TAATGTCTGCTTGGGGACCACAGCAGCCCTGCGGTGGGGACGGCAGGATTATCCTCTTTGACACTCTC  
 GTGGGCGCTGCGGTGGGAACACTCCTCCATGGCAGCTGTGGTCTACTCTCCTGACTTCCCTGACACCT  
 ACGCCACTGGGAGGGTCTGCTACTGGACTATCCGGTTCCAGGAGCCTCTCGCATCCATTCAACTTCAC  
 GATATTCGATATCAGGGATTCTGCAGACATGGTGGAGCTGCTGGACGGCTACACCCACCGCTCCTGGTC  
 CGCTTCGACGGCAGGAGCCGTCCACCTCTGTCTTCAATGTCTCTCTGGACTTTCGTCATTTTATATTTCT  
 TCTCTGATCGCATCAACCAGGCCAGGGATTGCTGTCTTGTACCAAGCCACCAAGGAAGAACCTCCACA  
 GGAGAGGCCTGCTATCAACCAGACCCTGGCAGAGGTGATCACGGAACAAGCCAACCTCAGCGTCAAGCCT  
 GCCACTCTTCCAAGTCTCTATGTATCACCTCCAGCCCCAGCCACCCACCGCAGACCGTCCCAGGTA  
 GCCATTCCTGGTACCATCAGTTGGGGCCAGCGGCCACAGAGTGGGAAGGATGGACCGTGTATGGCCTGCG  
 CACCCTCCTCATCCTCACAGTACAGCCGTTGTGGCAAAGATCCTTCTGCACGTGACGTTTAAATCTCAT  
 CGAGTTACTGCTTCAGGAGACCTTAGGGACTGTGCCAGCCTGGGACTTCTGGGAGATCTGGACATTT  
 TCTATGAACCCTCCACTACAATCTATCTTTAAGAAGAAGCTCAAGGGTCAGAGTCAACAAGATGACCG  
 TAACCCCTCGTGAGTGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR203349 representing NM\_053649  
 Red=Cloning site Green=Tags(s)

MAPPAARLALLSAAALTLAARPAPGPRPSPECFTANGADYRGTQSWTALQGGKPCFLWNETFQHPYNTLK  
 YPNEGGLGEHNYCRNPDGDVSPWCYVAEHEDGVYWKYCEIPACQMPGNLGCYKDHGNPPPLTGTSKTSN  
 KLTIQTCISFCRSQRFKFAGMESGYACFCGNNDYWKHGEAASTECNNVCFGDHTQPCGGDGRIILFDL  
 VGACGGNYSSMAAVVYSPDFPDYATGRVCYWTIRVPGASRIHFNFIFDIRDSADMVELLDGYTHRVLV  
 RFDGRSRPPLSFNVSLDFVILYFFSDRINQAQGFVLYQATKEEPPQERPAINQTLAEVITEQANLSVSA  
 AHSSKVLVYITSSPSPHPQTPVPGSHSWVPSVSGASGHRVEGWTVYGLATLLILTVTAVVAKILLHVTFKSH  
 RVTASGLRDCRQPGTSGEIWTFYEPSTTISIFKKKLKGQSQQDDRNPLVSD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:


**ACCN:** NM\_053649

**ORF Size:** 1419 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\\_053649.1](#), [NP\\_446101.1](#)
**RefSeq Size:** 2045 bp

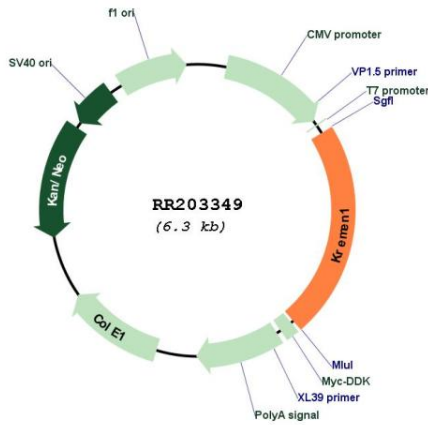
**RefSeq ORF:** 1422 bp

**Locus ID:** 114107

**UniProt ID:** [Q924S4](#)

**Cytogenetics:** 14q21  
**MW:** 51.9 kDa  
**Gene Summary:** a novel type-I transmembrane protein; may be involved in regulation of cellular responses in neuronal and/or muscle cells [RGD, Feb 2006]

**Product images:**



Circular map for RR203349