

## Product datasheet for **MR207561**

### **Kremen1 (NM\_032396) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kremen1 (NM_032396) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kremen1
Synonyms:	AV002070; Kremen; Krm1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR207561 representing NM\_032396  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGCCGCCCGCCCGCCCTCTCGCGCTGCTCTCCGCCCTGCGCTCACTCTGGCGGCCCGCCCGCCGCGC  
 CCGGTCCCGCTCCGCCCCGAGTGCTTACAGCCAACGGTGCAGATTACAGGGAAACACAGAGCTGGAC  
 AGCGCTGCAAGGTGGGAAGCCATGTCTGTTCTGGAACGAGACTTCCAGCATCCGTACAACACGCTGAAG  
 TACCCCAACGGGAAGGAGGACTGGCGGAGCACAATTATGCAGAAATCCAGATGGAGACGTGAGCCCTT  
 GGTGCTACGTGGCCGAGCATGAGGACGGAGTCTACTGGAAGTACTGTGAAATTCCTGCCTGCCAGATGCC  
 TGGAAACCTTGGCTGCTACAAGGATCATGGAACCCACCTCCTCTCACGGGCACCAGTAAAACCTCTAAC  
 AAGCTCACCATACAAACCTGTATCAGTTCTGTGCGGAGTCAAGATTCAAGTTTGTGGGATGGAGTCAG  
 GCTATGCCTGCTTCTGTGGAAACAATCCTGACTACTGGAAGCACGGGAGCGGCCAGCACCGAGTGCAA  
 TAGTGTCTGCTTCCGGGACCACAGCAGCCCTGCGGTGGGACGCGCAGGATTATCCTCTTTGACACTCTC  
 GTGGGCGCTGCGGTGGGAACTACTCAGCCATGGCAGCCGTGGTGTACTCCCTGACTTCCCTGACACCT  
 ACGCCACTGGCAGAGTCTGCTACTGGACCATCCGGTTCCAGGAGCCTCTCGCATCCATTCAACTTCAC  
 CCTGTTTGATATCAGGGACTCTGCAGACATGGTGGAGTCTGGACGGCTACACCCACCGCTCCTGGTC  
 CGGCTCAGTGGGAGGAGCCGCCCTCTGTCTTCAATGTCTCTCTGGATTTTGTCAATTTGTATTTCT  
 TCTCTGATCGCATCAATCAGGCCAGGGATTTGCTGTGTTGTACCAAGCCACCAAGGAGGAACCGCCACA  
 GGAGAGACCTGTGTCAACCAGACCCTGGCAGAGGTGATCACCAGCAAGCCAACCTCAGTGTGACGGCT  
 GCCACTCCTCCAAGTCTCTATGTATCACCACAGCCAGCCAGCCACCTCCGCAGACTGCCACAGTA  
 GCCATTCCTGGCACCGTCAGTTGGGGCCAACAGCCACAGAGTGGGAAGGATGGACTGTGTACGGCTGC  
 GACCTCCTCATCTCACAGTCACAGCAGTTGTGCAAAGATTCTTCTGCATGTCACATTTAAATCTCAT  
 CGAGTCCCTGCATCAGGAGACCTTAGGGACTGTGTCAGCCTGGGCTTCTGGAGATATCTGGACATTT  
 TCTATGAACCTTCCACTACAATCTCCATCTTTAAGAAGAAGTCAAGGTCAGAGTCAACAAGATGACCG  
 CAATCCCCTCGTGAGTGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207561 representing NM\_032396  
 Red=Cloning site Green=Tags(s)

MAPPAARLALLSAAALTLAARPAPGPRSGPECFTANGADYRGTQSWTALQGGKPCLFWNETFQHPYNTLK  
 YPNGEGLGEHNYCRNPDGDVSPWCYVAEHEDGVYWKYCEIPACQMPGNLGCYKDHGNPPPLTGTSKTSN  
 KLTIQTCSFRCRQRFKFAGMESGYACFCGNNPDYWKHGEAASTECNSVCFGDHTQPCGGDGRIILFDL  
 VGACGGNYSAMAAVVYSPDFPDYATGRVCYWTIRVPGASRIHFNFLLDIRDSADMVELLDGYTHRVLV  
 RLSGRSRPPLSFNVSLDFVILYFFSDRINQAQGFVLYQATKEEPPQERPAVNQTLAEVITEQANLSVSA  
 AHSSKVLVYITSPSPHPQTAPGSHSWAPSVGANSHRVEGWTVYGLATLLILTVTAVVAKILLHVTFKSH  
 RVPASGDLRDCRQPGASGDIWTFYEPSTTISIFKKKLKGQSQQDDRNPLVSD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9017\\_a12.zip](https://cdn.origene.com/chromatograms/mm9017_a12.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_032396

**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\\_032396.3](#), [NP\\_115772.2](#)

**RefSeq Size:** 4943 bp

**RefSeq ORF:** 1422 bp

**Locus ID:** 84035

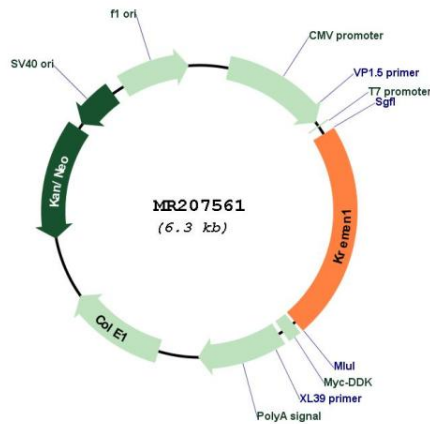
**UniProt ID:** [Q99N43](#)

**Cytogenetics:** 11 A1

**MW:** 52.1 kDa

**Gene Summary:** Receptor for Dickkopf proteins. Cooperates with DKK1/2 to inhibit Wnt/beta-catenin signaling by promoting the endocytosis of Wnt receptors LRP5 and LRP6 (PubMed:12050670). In the absence of DKK1, potentiates Wnt-beta-catenin signaling by maintaining LRP5 or LRP6 at the cell membrane (By similarity). Can trigger apoptosis in a Wnt-independent manner and this apoptotic activity is inhibited upon binding of the ligand DKK1 (PubMed:26206087). Plays a role in limb development; attenuates Wnt signaling in the developing limb to allow normal limb patterning and can also negatively regulate bone formation (PubMed:18505822). Modulates cell fate decisions in the developing cochlea with an inhibitory role in hair cell fate specification (PubMed:27550540).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207561