

## Product datasheet for **MC216539**

### **Kremen1 (NM\_032396) Mouse Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >MC216539 representing NM\_032396  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCCGCCGCCGCCGCTCTCGCGTCTCTCCGCCGCTGCGCTCACTCTGGCGGCCGCCGCCGCCGCGC  
 CCGGTCCCGCTCCGGCCCGAGTGCTTACAGCCAACGGTGCAGATTACAGGGGAACACAGAGCTGGAC  
 AGCGCTGCAAGGTGGGAAGCCATGTCTGTTCTGGAACGAGACTTCCAGCATCCGTACAACACGCTGAAG  
 TACCCCAACGGGAAGGAGGACTGGGCGAGCACAATTATTGCAGAAATCCAGATGGAGACGTGAGCCCTT  
 GGTGCTACGTGGCCGAGCATGAGGACGGAGTCTACTGGAAGTACTGTGAAATTCCTGCCTGCCAGATGCC  
 TGGAAACCTTGGCTGCTACAAGGATCATGGAACCCACCTCCTCTCACGGGCACCCAGTAAAACCTCTAAC  
 AAGCTCACCATACAAACCTGTATCAGTTCTGTGCGGAGTCAAGATTCAAGTTTGTGGGATGGAGTCAG  
 GCTATGCCTGCTTCTGTGGGAACAATCCTGACTACTGGAAGCACGGGGAGCGGCCAGCACCGAGTGCAA  
 TAGTGTCTGCTTCCGGGACCACACGAGCCCTGCGGTGGGACGGCAGGATTATCCTCTTTGACACTCTC  
 GTGGGCGCTGCGGTGGGAACACTCAGCCATGGCAGCCGTGGTGTACTCCCTGACTTCCCTGACACCT  
 ACGCCACTGGCAGAGTCTGCTACTGGACCATCCGGTTCCAGGAGCCTCTCGCATCCATTCAACTTCAC  
 CCTTTTGTATCAGGGACTCTGCAGACATGGTGGAGTCTGGACGGCTACACCCACCGCTCCTGGTC  
 CGGCTCAGTGGGAGGAGCCGCCGCTCTGTCTTCAATGTCTCTCTGGATTTTGTCAATTTGTATTTCT  
 TCTCTGATCGCATCAATCAGGCCAGGGATTTGCTGTGTTGTACCAAGCCACCAAGGAGGAACCGCCACA  
 GGAGAGACCTGTGTCAACCAGACCCTGGCAGAGGTGATCACCAGCAAGCCAACCTCAGTGTGACGGCT  
 GCCACTCCTCCAAGTCTCTATGTATCACCACCCAGCCAGCCACCTCCGACAGTGCACCCAGGTA  
 GCCATTCCTGGGACCGTCAGTTGGGGCAACAGCCACAGAGTGAAGGATGGACTGTGACGGCCTGGC  
 GACCCCTCATCCTCACAGTCACAGCAGTTGTGCAAAGATTCTTCTGCATGTCACATTTAAATCTCAT  
 CGAGTCCCTGCATCAGGAGACCTTAGGGACTGTGTCAGCCTGGGGCTTCTGGAGATATCTGGACATTT  
 TCTATGAACCTTCCACTACAATCTCCATCTTTAAGAAGAAGTCAAGGGTCAGAGTCAACAAGATGACCG  
 CAATCCCTCGTGAGTGACTGA

**ACGGT**ACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_032396

**Insert Size:** 1422 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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: [BC082546](#), [AAH82546](#)

RefSeq Size: 4943 bp

RefSeq ORF: 1422 bp

Locus ID: 84035

UniProt ID: [Q99N43](#)

Cytogenetics: 11 A1

**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]