

Product datasheet for **MG207561**

Kremen1 (NM_032396) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kremen1 (NM_032396) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kremen1
Synonyms:	AV002070; Kremen; Krm1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207561 representing NM_032396
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGCCGCCCGCCCGCCCTCTCGCGCTGCTCTCCGCCCTGCGCTCACTCTGGCGGCCCGCCCGCCGCGC
 CCGGTCCCGCTCCGGCCCCGAGTGCTTACAGCCAACGGTGCAGATTACAGGGGAACACAGAGCTGGAC
 AGCGCTGCAAGGTGGGAAGCCATGTCTGTTCTGGAACGAGACTTCCAGCATCCGTACAACACGCTGAAG
 TACCCCAACGGGAAGGAGGACTGGCGGAGCACAATTATGCAGAAATCCAGATGGAGACGTGAGCCCTT
 GGTGCTACGTGGCCGAGCATGAGGACGGAGTCTACTGGAAGTACTGTGAAATTCCTGCCTGCCAGATGCC
 TGGAAACCTTGGCTGCTACAAGGATCATGGAACCCACCTCCTCTCACGGGCACCAGTAAAACCTCTAAC
 AAGCTCACCATACAAACCTGTATCAGTCTGTGCGGAGTCAGAGATTCAAGTTTGTGGGATGGAGTCAG
 GCTATGCCTGCTTCTGTGGAAACAATCCTGACTACTGGAAGCACGGGGAGCGGCCAGCACCGAGTGCAA
 TAGTGTCTGCTTCGGGGACCACACGCAGCCCTGCGGTGGGGACGCGAGGATTATCCTCTTTGACACTCTC
 GTGGGCGCTGCGGTGGGAACACTCAGCCATGGCAGCCGTGGTGTACTCCCTGACTTCCCTGACACCT
 ACGCCACTGGCAGAGTCTGCTACTGGACCATCCGGTTCCAGGAGCCTCTCGCATCCATTCAACTTCAC
 CCTTTTGTATCAGGGACTCTGCAGACATGGTGGAGTCTGGACGGCTACACCCACCGCGTCTGGTC
 CGGCTCAGTGGGAGGAGCCGCCCTCTGTCTTCAATGTCTCTCTGGATTTTGTCAATTTGTATTTCT
 TCTCTGATCGCATCAATCAGGCCAGGGATTTGCTGTGTTGTACCAAGCCACCAAGGAGGAACCGCCACA
 GGAGAGACCTGTGTCAACCAGACCCTGGCAGAGGTGATCACCAGCAAGCCAACCTCAGTGTGACGGCT
 GCCACTCCTCCAAAGTCTCTATGTATCACCACCCAGCCAGCCACCTCCGCAGACTGCCCCAGGTA
 GCCATTCCTGGGACCCGTAGTTGGGGCAACAGCCACAGAGTGGAAAGGATGGACTGTGACGGCCTGGC
 GACCCCTCATCCTCACAGTCACAGCAGTTGTGCGAAAGATTCTTCTGCATGTCACATTTAAATCTCAT
 CGAGTCCCTGCATCAGGAGACCTTAGGGACTGTGTCAGCCTGGGGCTTCTGGAGATATCTGGACATTT
 TCTATGAACCTTCCACTACAATCTCCATCTTTAAGAAGAAGCTCAAGGGTCAGAGTCAACAAGATGACCG
 CAATCCCCTCGTGAGTGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207561 representing NM_032396
 Red=Cloning site Green=Tags(s)

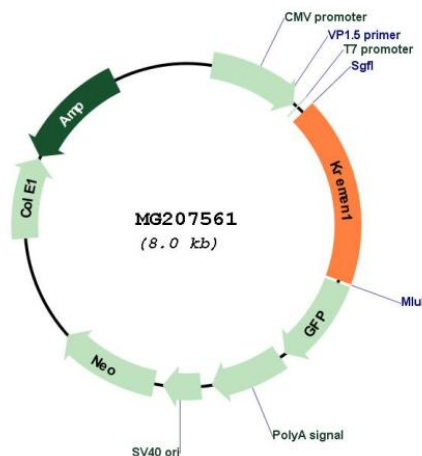
MAPPAARLALLSAAALTLAARPAPGPRSGPECFTANGADYRGTQSWTALQGGKPCFLWNETFQHPYNTLK
 YPNGEGLGEHNYCRNPDGVDSPWCYVAEHEDGVYWKYCEIPACQMPGNLGCYKDHGNPPPLTGTSKTSN
 KLTIQTCSFRCRQRKFKFAGMESGYACFCGNNPDYWKHGEAASTECNSVCFGDHTQPCGGDGRIILFDL
 VGACGGNYSAMAADVYSPDFPDYATGRVCYWTIRVPGASRIHFNFRLFDIRDSADMVELLDGYTHRVLV
 RLSGRSRPPLSFNVSLDFVILYFFSDRINQAQGFVLYQATKEPPQERPAVNQTLAEVITEQANLSVSA
 AHSSKVLVYITPSPSHPPQTAPGSHSWAPSVGANSRVEGWTVYGLATLLILTVTAVVAKILLHVTFKSH
 RVPASGDLRDCRQPGASGDIWTFYEPSTTISIFKKLKGQSQQDDRNPLVSD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Plasmid Map:


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_032396.2](#)

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]