

## Product datasheet for **SC127217**

### KREMEN2 (NM\_024507) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KREMEN2 (NM_024507) Human Untagged Clone
Tag:	Tag Free
Symbol:	KREMEN2
Synonyms:	KRM2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_024507, the custom clone sequence may differ by one or more nucleotides

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ATGGGGACACAAGCCCTGCAGGGCTTCCTCTTTCTCCTCTTCTCCCGCTGCTGCAGCCGCTGGGGCCT
CGGCTGGGAGCCTGCACAGTCCAGGCCTGTCCGAATGCTTCCAGGTGAATGGGGCTGACTACCGCGGCCA
CCAGAACCGCACTGGCCCGCGGGGGCGGGCCGCCCTGCCTCTTCTGGGACCAGACGCAGCAACACAGC
TACAGCAGCGCCAGCGACCCCCACGGCCGCTGGGGGCTGGGCGCGCAACTTCTGCCGTAACCCAGACG
GTGACGTGCAGCCGTGGTGTACGTGGCTGAGACAGAGGAGGGCATCTACTGGCGCTACTGCGACATCCC
CTCCTGTACATGCCAGGCTACCTGGGATGCTTTGTGGACTCAGGGGCACCCCCAGCCCTCAGCGGCCCC
AGCGGCACCTCCACGAAGCTCACGGTCCAGGTGTCCCTACGTTCTGCCGATGAAGGGGTACCAGCTGG
CGGGCGTGGAGGCCGTTACGCCTGCTTGTGGCTCTGAAAGCGACCTGGCCCGGGGACGCTGGCCCC
CGCCACCGACTGTGACCAGATCTGTTTCGGCCACCCTGGACAGCTGTGTGGCGGGATGGGCGGGTGGG
GTCTATGAAGTGTGGTGGGCTCCTGCCAGGGAACTGGACAGCGCCTCAGGGCGTCATCTACTCCCGG
ACTTCCCGGACGAGTACGGGCGGACCGGAACTGCAGCTGGGCCCTGGGCCCGCCAGGCGCCGCGCTGGA
GCTCACCTCCGCTCTTCGAGCTGGCCGACCCGCGGACCGGCTGGAGCTGCGGACGCGGCTTCGGGC
AGCCTGCTCCGCGCTTCGATGGCGCCCGCCACCGCGTCCGGGCCGCTGCGCTGGGCACTGCCGCGC
TGCTGCTACCTTCCGAAGCGACGCGCGCGGCCACGCGCAAGGCTTCGCGCTCACCTACCGCGGGCTGCA
GGACGCGCTGAGGACCCAGAGGCCCGAGGGCTCGGCCAGACCCCGCGGGCCCTCGACGGGGCC
AACGTGAGCTGCAGCCCAGGCCTGGGGCTCCGCCGCGCGGATTGGGGGAGCTGTCTGCTGGCTCCGGG
AAAAGGGCCCCCGCGCTGGGGGCTTCCAGGGGCCCGAGGAGAAGCTGGGCTGTGTGGTACCAACAGCCC
CGAGGGGTGGCCTTGCCCTGCTCCCCGGGGACCCCCAGGCTGAGGGTTCTGCCGCGGGCTACCGGCCTC
TGA

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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_024507 unedited  
 NAAAACATTTTACATTTGTATACGACTCATATAGGCGGCACGCGAATTCGCACGAGGGGG  
 TATACTGTGAGAGGACAACGCCCCCTAGGTCTCCTGGGAGACCCCGAAGCGACCCCGGGG  
 GCAGCCCGGGCCGTGTCCGGGCGAGGGTGACCTATCCTTGTTGAGAGCGATGGGGACAC  
 AAGCCCTGCAGGGCTTCTCTTTCTCCTTCTCCTCCCGCTGCTGCAGCCGCTGGGGCCT  
 CGGCTGGGAGCCTGCACAGTCCAGGCCTGTCCGAATGCTTCCAGGTGAATGGGGCTGACT  
 ACCGCGGCCACCAAGACCGCACTGGCCCGCGGGGGCGGGCCCGCTGCTCTTTCTGGG  
 ACCAGACGCAACACAGCTACAGCAGCGCCAGCGACCCCGCGCCGCTGGGGGCTGG  
 GCGCGCAAACTTCTGCCGTAACCCAGACGGTGACGTGCAGCCGTGGTGCTACGTGGCTG  
 ATACAGAGGAGGGCATCTACTGGCGCTACTGCGACATCCCCTCCTGTACATGCCAGGCT  
 ACCTGGGATGCTTTGTGGACTCAGGGGACCCCGAGCCCTCAGCGGCCCGAGCGGACCT  
 CCACGAAGCTCACGGTCCAGGTGTGCCTACGCTTCTGCCGATGAAGGGGTACCAGCTTG  
 GCGGGCGTGGAGGCCGTTACGCCTGCTTCTGTGGCTCTGAAAGCGACCTGGCCCGGTG  
 ACCCTGGGCCCGCCACCGAATGGGACCAGATCTGTTTCGGCCACNCTGGGAAGCTGTG  
 TGGCGCCATGGGCGCTGGGCGTCTATGAAGGTGCGTGGGCTCCTGCCAGGGAACTGG  
 ACAGCGCCTCATGGGGTCACTACTCT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_024507 unedited  
 GACCTTTGGCGATGTGCCTTCCAGTTCAGNANAGCACTGGGGCAGGGTCACAGGCAT  
 GCCACCCGGGTATCTGTTGCAGGAAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAG  
 TTTTTTTTTTTTTTTTTTACCAAAGTAGATCCTTTATTCAAATCTGTGGGGTTTTTTG  
 ACTGTTTTTGTGACCTGTGACCTCTCACTGAGGACGGCAGTCCAGGACACCCCGAGAG  
 GGGTTCAAAGACCTCCGAAACCAGAGACCACCCCGACATACAGGTCCATGGAGAGGGCCT  
 GGACCATCTGGACCCCGCAGGTCAGGCCAAGTCCAGATAATAGCACCAGATGTTTCCTG  
 TCCGACTTTTGGTCTCCCAAGGCGACCAGAGGCGGAGCTGCCCTACACAGGCGCAAGG  
 CCGAGGACGGGCGCAGCAGCATCTCAGGTGTCCATCTCGCCGGCGGGGGCCAGCGG  
 ACCCTCGGGGCCAGAGTCAGAGAGCGGATATGAGCGAGCGCAGGGAGCTCTGGTGGAG  
 GCACTCAGAGGCCGAGTCCCGCGGCGAACCCTCAGCTGGGGTCCCCGGGGGAGCAG  
 GGCAAGGCCACCCTCGGGGCTGTTGGTACCACACAGCCATCTTCTCCTGGGGCCCTG  
 GAAGCCCCCAGCGCCGGGGCCCTTTTCCCGGAGCCAGCAGACAGCTCCCCAATCGCGG  
 CCGGCGGAGCCCGAGCCTGGGGTGCAGCTCACGTTGGCCCGTCCGAGGGGCGCCCGGG  
 GGTCTGGGCCGAGCCCTCGGGGGCCTCTGGGTCTCAGCGCGTCTGCAACCCGCTAG  
 GTGAGCGCAAGCCCTGCGCGTGGCCGCGCTCGCTCGGAGGTGAGCAGCACGGGAGTG  
 CCCAGCGCAGGCCCN

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_024507

**Insert Size:**

2000 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:** [NM\\_024507.2](#), [NP\\_078783.1](#)

**RefSeq Size:** 1992 bp

**RefSeq ORF:** 1263 bp

**Locus ID:** 79412

**UniProt ID:** [Q8NCW0](#)

**Cytogenetics:** 16p13.3

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** This gene encodes a high-affinity dickkopf homolog 1 (DKK1) transmembrane receptor. A similar protein in mouse functions interacts with with DKK1 to block wntless (WNT)/beta-catenin signaling. The encoded protein forms a ternary membrane complex with DKK1 and the WNT receptor lipoprotein receptor-related protein 6 (LRP6), and induces rapid endocytosis and removal of LRP6 from the plasma membrane. It contains extracellular kringle, WSC, and CUB domains. Alternatively spliced transcript variants encoding distinct isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]  
Transcript Variant: This variant (2), also called kremen2b, lacks an exon in the 3' coding region compared to variant 4, resulting in a frameshift. The encoded isoform (b) is shorter and has a distinct C-terminus compared to isoform d.