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Product datasheet for RC202558

KREMEN2 (NM_024507) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KREMEN2 (NM_024507) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KREMEN2
Synonyms:	KRM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202558 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGACACAAGCCCTGCAGGGCTTCCTCTTTCTCCTCTTCCTCCCGCTGCTGCAGCCGCGTGGGGCCT
CGGCTGGGAGCCTGCACAGTCCAGGCCTGTCCGAATGCTTCCAGGTGAATGGGGCTGACTACCGCGGCCA
CCAGAACCGCACTGGCCCGCGCGGGGCGGGCCGCCCGTGCCTCTTCTGGGACCAGACGCAGCAACACAGC
TACAGCAGCGCCAGCGACCCCCACGGCCGCTGGGGGCTGGGCGCGCACAACTTCTGCCGTAACCCAGACG
GTGACGTGCAGCCGTGGTGCTACGTGGCTGAGACAGAGGAGGGCATCTACTGGCGCTACTGCGACATCCC
CTCCTGTCACATGCCAGGCTACCTGGGATGCTTTGTGGACTCAGGGGCACCCCCAGCCCTCAGCGGCCCC
AGCGGCACCTCCACGAAGCTCACGGTCCAGGTGTGCCTACGCTTCTGCCGCATGAAGGGGTACCAGCTGG
CGGGCGTGGAGGCCGGTTACGCCTGCTTCTGTGGCTCTGAAAGCGACCTGGCCCGGGGACGCCTGGCCCC
CGCCACCGACTGTGACCAGATCTGTTTCGGCCACCCTGGACAGCTGTGTGGCGGCGATGGGCGGCTGGGC
GTCTATGAAGTGTCGGTGGGCTCCTGCCAGGGGAACTGGACAGCGCCTCAGGGCGTCATCTACTCCCCGG
ACTTCCCGGACGAGTACGGGCCGGACCGGAACTGCAGCTGGGCCCTGGGCCCGCCAGGCGCCGCGCTGGA
GCTCACCTTCCGCCTCTTCGAGCTGGCCGACCCGCGCGACCGGCTGGAGCTGCGCGACGCGGCTTCGGGC
AGCCTGCTCCGCGCCTTCGATGGCGCCCGCCCACCGCCGTCCGGGCCGCTGCGCCTGGGCACTGCCGCGC
TGCTGCTCACCTTCCGAAGCGACGCGCGCGGCCACGCGCAAGGCTTCGCGCTCACCTACCGCGGGCTGCA
GGACGCCGCTGAGGACCCAGAGGCCCCCGAGGGCTCGGCCCAGACCCCCGCGGCGCCCCTCGACGGGGCC
AACGTGAGCTGCAGCCCCAGGCCTGGGGCTCCGCCGGCCGCGATTGGGGGAGCTGTCTGCTGGCTCCGGG
AAAAGGGCCCCCGGCGCTGGGGGCTTCCAGGGGCCCCAGGAGAAGCTGGGCTGTGTGGTACCAACAGCCC
CGAGGGGTGGCCTTGCCCTGCTCCCCCGGGGACCCCCAGGCTGAGGGTTCTGCCGCGGGCTACCGGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC202558 protein sequence
Red=Cloning site Green=Tags(s)

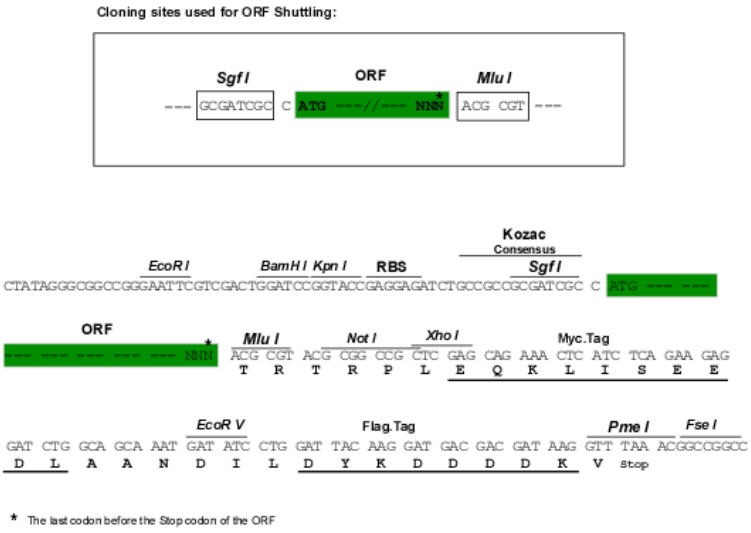
MGTQALQGFLFLLFLPLLQPRGASAGSLHSPGLSECFQVNGADYRGHQNRTGPRGAGRPCLFWDQTQQHS
YSSASDPHGRWGLGAHNFCRNPDGDVQPWCYVAETEEGIYWRYCDIPSCHMPGYLGCFVDSGAPPALSGP
SGTSTKLTVQVCLRFCRMKGYQLAGVEAGYACFCGSESDLARGRLAPATDCDQICFGHPGQLCGGDGRLG
VYEVSVGSCQGNWTAPQGVIYSPDFPDEYGPDRNCSWALGPPGAALELTFRLFELADPRDRLELRDAASG
SLLRAFDGARPPPSGPLRLGTAALLLTFRSDARGHAQGFALTYRGLQDAAEDPEAPEGSAQTPAAPLDGA
NVSCSPRPGAPPAAIGGAVCWLREKGPRRWGLPGAPGEAGLCGTNSPEGWPCPAPPGTPRLRVLPRATGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6150_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024507

ORF Size: 1260 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_024507.4

RefSeq Size: 1989 bp

RefSeq ORF: 1263 bp

Locus ID: 79412

UniProt ID: Q8NCW0

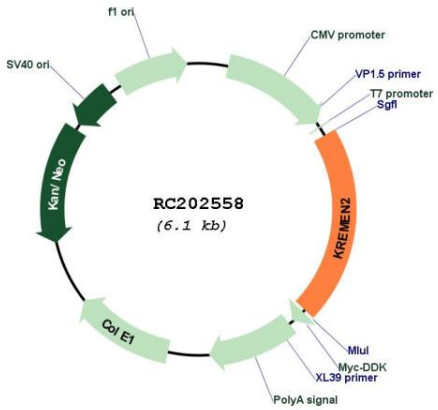
Cytogenetics: 16p13.3

Protein Families: Druggable Genome, Transmembrane

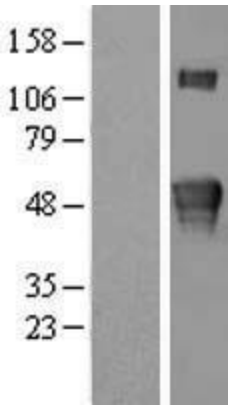
MW: 44.4 kDa

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 wingless (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]

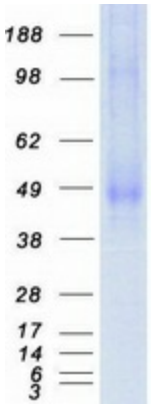
Product images:



Circular map for RC202558



Western blot validation of overexpression lysate (Cat# [LY402993]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202558 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KREMEN2 protein (Cat# [TP302558]). The protein was produced from HEK293T cells transfected with KREMEN2 cDNA clone (Cat# RC202558) using MegaTran 2.0 (Cat# [TT210002]).