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Product datasheet for RC208991

KREMEN1 (NM_001039571) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KREMEN1 (NM_001039571) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KREMEN1
Synonyms:	FLJ31863; KREMEM1; KREMEN; kringle-coding gene marking the eye and the nose; kringle-containing transmembrane protein 1; kringle containing transmembrane protein 1; KRM1; OTTHUMP00000028977
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC208991 representing NM_001039571
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCCGCCCGCCGCCCGCCTCGCCCTGCTCTCCGCCGCGGCGCTCACGCTGGCGGCCCGGCCCGCGC
CTAGCCCCGGCCTCGGCCCCGGACCCGAGTGTTTCACAGCCAATGGTGCGGATTATAGGGGAACACAGAA
CTGGACAGCACTACAAGGCGGGAAGCCATGTCTGTTTTGGAACGAGACTTTCCAGCATCCATACAACACT
CTGAAATACCCCAACGGGGAGGGGGGCCTGGGTGAGCACAACTATTGCAGAAATCCAGATGGAGACGTGA
GCCCCTGGTGCTATGTGGCAGAGCACGAGGATGGTGTCTACTGGAAGTACTGTGAGATACCTGCTTGCCA
GATGCCTGGAAACCTTGGCTGCTACAAGGATCATGGAAACCCACCTCCTCTAACTGGCACCAGTAAAACG
TCCAACAAACTCACCATACAAACTTGCATCAGTTTTTGTCGGAGTCAGAGGTTCAAGTTTGCTGGGATGG
AGTCAGGCTATGCTTGCTTCTGTGGAAACAATCCTGATTACTGGAAGTACGGGGAGGCAGCCAGTACCGA
ATGCAACAGCGTCTGCTTCGGGGATCACACCCAACCCTGTGGTGGCGATGGCAGGATCATCCTCTTTGAT
ACTCTCGTGGGCGCCTGCGGTGGGAACTACTCAGCCATGTCTTCTGTGGTCTATTCCCCTGACTTCCCCG
ACACCTATGCCACGGGGAGGGTCTGCTACTGGACCATCCGGGTTCCGGGGGCCTCCCACATCCACTTCAG
CTTCCCCCTATTTGACATCAGGGACTCGGCGGACATGGTGGAGCTTCTGGATGGCTACACCCACCGTGTC
CTAGCCCGCTTCCACGGGAGGAGCCGCCCACCTCTGTCCTTCAACGTCTCTCTGGACTTCGTCATCTTGT
ATTTCTTCTCTGATCGCATCAATCAGGCCCAGGGATTTGCTGTTTTATACCAAGCCGTCAAGGAAGAACT
GCCACAGGAGAGGCCCGCTGTCAACCAGACGGTGGCCGAGGTGATCACGGAGCAGGCCAACCTCAGTGTC
AGCGCTGCCCGGTCCTCCAAAGTCCTCTATGTCATCACCACCAGCCCCAGCCACCCACCTCAGACTGTCC
CAGGATGGACAGTCTATGGTCTGGCAACTCTCCTCATCCTCACAGTCACAGCCATTGTAGCAAAGATACT
TCTGCACGTCACATTCAAATCCCATCGTGTTCCTGCTTCAGGGGACCTTAGGGATTGTCATCAACCAGGG
ACTTCGGGGGAAATCTGGAGCATTTTTTACAAGCCTTCCACTTCAATTTCCATCTTTAAGAAGAAACTCA
AGGGTCAGAGTCAACAAGATGACCGCAATCCCCTTGTGAGTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208991 representing NM_001039571
Red=Cloning site Green=Tags(s)

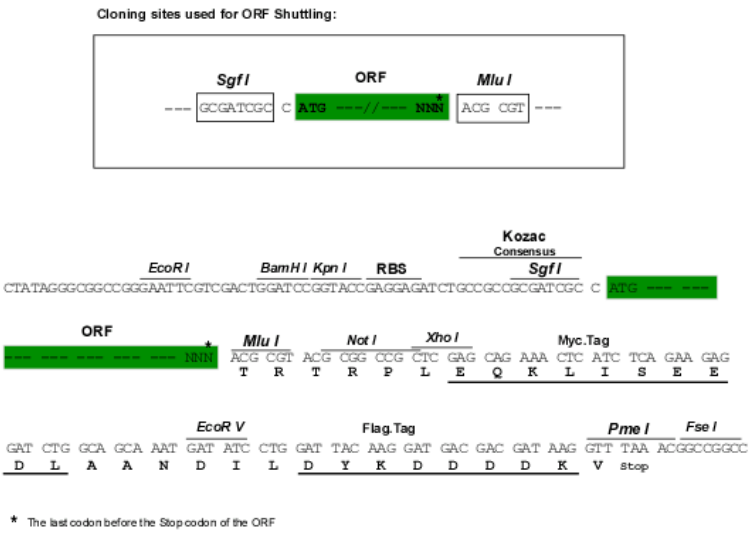
MAPPAARLALLSAAALTLAARPAPSPGLGPGPECFTANGADYRGTQNWTALQGGKPCLFWNETFQHPYNT
LKYPNGEGGLGEHNYCRNPDGDVSPWCYVAEHEDGVYWKYCEIPACQMPGNLGCYKDHGNPPPLTGTSKT
SNKLTIQTCISFCRSQRFKFAGMESGYACFCGNNPDYWKYGEAASTECNSVCFGDHTQPCGGDGRIILFD
TLVGACGGNYSAMSSVVYSPDFPDTYATGRVCYWTIRVPGASHIHFSFPLFDIRDSADMVELLDGYTHRV
LARFHGRSRPPLSFNVSLDFVILYFFSDRINQAQGFAVLYQAVKEELPQERPAVNQTVAEVITEQANLSV
SAARSSKVLYVITTSPSHPPQTVPGWTVYGLATLLILTVTAIVAKILLHVTFKSHRVPASGDLRDCHQPG
TSGEIWSIFYKPSTSISIFKKKLKGQSQQDDRNPLVSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3998_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001039571

ORF Size: 1374 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_001039571.1, NP_001034660.1

RefSeq Size: 6115 bp

RefSeq ORF: 1376 bp

Locus ID: 83999

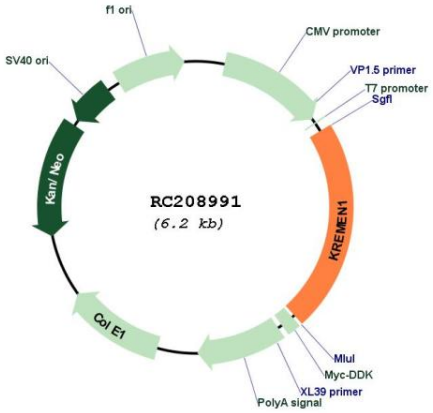
Cytogenetics: 22q12.1

Protein Families: Druggable Genome, Transmembrane

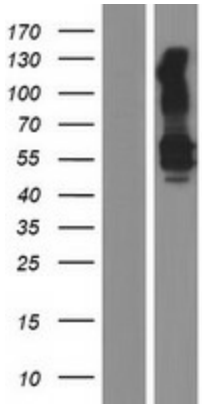
MW: 50.18 kDa

Gene Summary: This gene encodes a high-affinity dickkopf homolog 1 (DKK1) transmembrane receptor that functionally cooperates with DKK1 to block wingless (WNT)/beta-catenin signaling. The encoded protein is a component of a membrane complex that modulates canonical WNT signaling through lipoprotein receptor-related protein 6 (LRP6). It contains extracellular kringle, WSC, and CUB domains. Alternatively spliced transcript variants encoding distinct isoforms have been observed for this gene. [provided by RefSeq, Jul 2008]

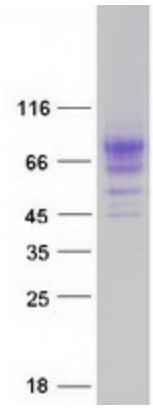
Product images:



Circular map for RC208991



Western blot validation of overexpression lysate (Cat# [LY422074]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208991 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KREMEN1 protein (Cat# [TP308991]). The protein was produced from HEK293T cells transfected with KREMEN1 cDNA clone (Cat# RC208991) using MegaTran 2.0 (Cat# [TT210002]).