

## Product datasheet for **RG208991**

### **KREMEN1 (NM\_001039571) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KREMEN1 (NM_001039571) Human Tagged ORF Clone
Tag:	TurboGFP
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-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208991 representing NM\_001039571  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGCCGCCCGCCGCCCGCTCGCCCTGCTCTCCGCCGCGGCGCTCACGCTGGCGGCCCGCCCGCCGCGC  
 CTAGCCCCGGCCTCGGCCCGGACCCGAGTGTTCACAGCCAATGGTGGGATTATAGGGGAACACAGAA  
 CTGGACAGCACTACAAGGCGGGAAGCCATGTCTGTTTTGGAACGAGACTTCCAGCATCCATACAACACT  
 CTGAAATACCCCAACGGGGAGGGGGCCTGGGTGAGCACAATATTGCAGAAATCCAGATGGAGACGTGA  
 GCCCTGGTGCTATGTGGCAGAGCAGGAGTGGTGTCTACTGGAAGTACTGTGAGATACCTGCTTGCCA  
 GATGCCTGAAACCTTGCTGCTACAAGGATCATGAAACCCACCTCCTCTAACTGGCACCAGTAAACG  
 TCCAACAACTCACCATACAAATTGCATCAGTTTTTGTGGAGTCAGAGTTCAAGTTTGTGGGATGG  
 AGTCAGGCTATGCTTGTCTGTGAAACAATCCTGATTACTGGAAGTACGGGGAGGCAGCCAGTACCGA  
 ATGCAACAGCGTCTGCTTCGGGGATCACACCAACCCTGTGGTGGCGATGCAGGATCATCTCTTTGAT  
 ACTCTCGTGGGCCCTGCGGTGGAACTACTCAGCCATGTCTTCTGTGGTCTATCCCTGACTTCCCCG  
 ACACCTATGCCACGGGGAGGGTCTGCTACTGGACCATCCGGGTTCCGGGGCCTCCCACATCCACTTCAG  
 CTTCCCCATTTGACATCAGGGACTCGGCGGACATGGTGGAGCTTCTGGATGGTACACCCACCGTGTG  
 CTAGCCCGCTTCCACGGGAGGAGCCGCCACCTCTGCTCTCAACGTCTCTCTGGACTTCGTCATCTTGT  
 ATTTCTTCTCTGATCGCATCAATCAGGCCCAGGGATTTGCTGTTTTATACCAAGCCGTCAAGGAAGAACT  
 GCCACAGGAGAGGCCCGCTGTCAACCAGACGGTGGCCGAGGTGATCAGGAGCAGGCCAACCTCAGTGTG  
 AGCGCTGCCCGGTCTCCAAAGTCTCTATGTCATCACCACAGCCAGCCACCCACCTCAGAGTGTCC  
 CAGGATGGACAGTCTATGGTCTGGCAACTCCTCATCCTCACAGTCACAGCCATTGTAGCAAAGATACT  
 TCTGCAGTCAATTCAAATCCATCGTGTCTTCTGCTTACAGGGACCTTAGGGATTGTATCAACCAGGG  
 ACTTCGGGGAAATCTGGAGCATTTTTTACAAGCCTTCACTTCAATTTCCATCTTTAAGAAGAACTCA  
 AGGGTCAGAGTCAACAAGATGACCGCAATCCCCTGTGAGTGAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG208991 representing NM\_001039571  
 Red=Cloning site Green=Tags(s)

MAPPAARLALLSAAALTLAARPAPSPGLGPGPECFTANGADYRGTQNWALQGGKPLFWNETFQHPYNT  
 LKYPNGEGGLGEHNYCRNPDGDVSPWCYVAEHEDGVYWKYCEIPACQMPGNLGCYKDHGNPPPLTGTSTK  
 SNKLTIQTCISFCRSQRFK FAGMESGYACFCGNNPDYWKYGEAASTECNSVCFGDHTQPCGGDGRILFD  
 TLVGACGGNYSAMSSVVYSPDFPDYATGRVCYWTIRVPGASHIHFSPPLFDIRDSADMVELLDGYTHRV  
 LARFHGRSRPPLSFNVS LDFVILYFFSDRINQAQGF AVL YQAVKEELPQERPAVNQTVAEVITEQANLSV  
 SAARSSKVLVYITTSPPHPPQTVPGWTVYGLATLLILTVTAIVAKILLHVTFKSHRVPASGDLRDCHQPG  
 TSGEIWSIFYKPSTSISIFKKKLKGQSQQDDRNPLVSD

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

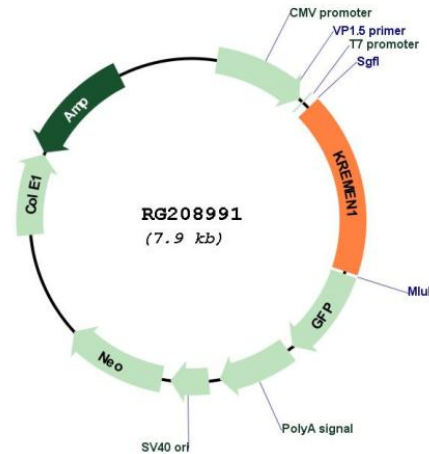
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



## Plasmid Map:



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

**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]