

Product datasheet for **RG227108**

KREMEN1 (NM_032045) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KREMEN1 (NM_032045) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KREMEN1
Synonyms:	ECTD13; 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:

>RG227108 representing NM_032045
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCCGCCAGCCGCCCGCTCGCCCTGCTCTCCGCCGCGGCGCTCACGCTGGCGGCCGGCCCGCCGCGC
 CTAGCCCCGGCCTCGGCCCGGACCCGAGTGTTTCACAGCCAATGGTGGGATTATAGGGGAACACAGAA
 CTGGACAGCACTACAAGGCGGGAAGCCATGTCTGTTTTGGAACGAGACTTCCAGCATCCATACAACACT
 CTGAAATACCCCAACGGGGAGGGGGCCTGGGTGAGCACAATATTGCAGAAATCCAGATGGAGACGTGA
 GCCCTGGTGCTATGTGGCAGAGCAGGAGTGGTGTCTACTGGAAGTACTGTGAGATACCTGCTTGCCA
 GATGCCTGGAAACCTTGCTGCTACAAGGATCATGAAACCCACCTCCTAACTGGCACCAGTAAAACG
 TCCAACAACTCACCATACAAATTGCATCAGTTTTTGTGGAGTCAGAGTTCAAGTTTGTGGGATGG
 AGTCAGGCTATGCTTGTCTGTGGAACAATCCTGATTACTGGAAGTACGGGGAGGCAGCCAGTACCGA
 ATGCAACAGCGTCTGCTTCGGGGATCACACCAACCCTGTGGTGGCGATGCAGGATCATCTCTTTGAT
 ACTCTCGTGGGCGCCTGCGGTGGAACTACTCAGCCATGTCTTCTGTGGTCTATTCCTGACTTCCCCG
 ACACCTATGCCACGGGGAGGGTCTGCTACTGGACCATCCGGGTTCCGGGGCCTCCCACATCCACTTCAG
 CTTCCCCCTATTTGACATCAGGGACTCGGCGGACATGGTGGAGCTTCTGGATGGTACACCCACCGTGT
 CTAGCCCGCTTCCACGGGAGGAGCCGCCACCTCTGCTTCAACGTCTCTCTGGACTTCGTCATCTTGT
 ATTTCTTCTCTGATCGCATCAATCAGGCCCAGGGATTTGCTGTTTTATACCAAGCCGTCAAGGAAGAACT
 GCCACAGGAGAGGCCCGTGTCAACCAGACGGTGGCCGAGGTGATCAGGAGCAGGCCAACCTCAGTGT
 AGCGTGCCCGGTCTCCAAAGTCTCTATGTCATCACCACAGCCCCAGCCACCCACCTCAGACTGTCC
 CAGGTAGCAATTCCTGGGCGCCACCCATGGGGCTGGAAGCCACAGAGTTGAAGGATGGACAGTCTATGG
 TCTGGCAACTCTCCTCATCCTCACAGTCACAGCCATTGTAGCAAAGATACTTCTGCACGTCACATTCAAA
 TCCCATCGTGTTCTGCTTCAGGGGACCTTAGGGATTGTCATCAACCAGGACTTCGGGGAAATCTGGA
 GCATTTTTTACAAGCCTTCCACTTCAATTTCCATCTTTAAGAAGAACTCAAGGGTCAAGTCAACAAGA
 TGACCGCAATCCCCTTGAATTCAGGACTCGGAAGTGACATCACTCATCTGGTCTCAGGGGCAGCCAGA
 AGTATC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227108 representing NM_032045
 Red=Cloning site Green=Tags(s)

MAPPAARLALLSAAALTLAARPAPSPGLGPGPECFTANGADYRGTQNWALQGGKPCLFWNETFQHPYNT
 LKYPNGEGGLGEHNYCRNPDGDVSPWCYVAEHEDGVYWKYCEIPACQMPGNLGCYKDHGNPPPLTGTSKT
 SNKLTIQTCISFCRSQRFKFRAGMESGYACFCGNNPDYWKYGEAASTECNSVCFGDHTQPCGGDGRILFD
 TLVGACGGNYSAMSSVVYSPDFPDYATGRVCYWTIRVPGASHIHFSPPLFDIRDSADMVELLDGYTHRV
 LARFHGRSRPPLSFNVSLDFVILYFFSDRINQAQGFVLYQAVKEELPQERPAVNQTVAEVITEQANLSV
 SAARSSKVLVITTSPPHPTVPGSNSWAPPMGAGSHRVEGWTVYGLATLLILTVTAIVAKILLHVTFK
 SHRVPASGDLRDCHQPGTSGEIWSIFYKPSSTISIFKFKLKGQSQQDDRNPLAIQDSEVTSLIWSQGQPR
 SI

TRTRPLE – GFP Tag – V

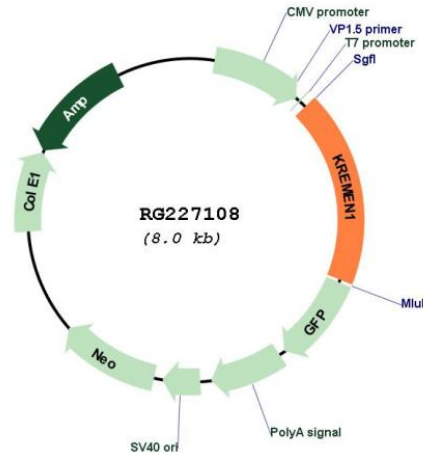
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_032045

ORF Size: 1476 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_032045.5](#)

RefSeq Size: 2719 bp

RefSeq ORF: 1479 bp

Locus ID: 83999

UniProt ID: [Q96MU8](#)

Cytogenetics: 22q12.1

Domains: KR, CUB, WSC

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]