

Product datasheet for **RG234056**

KREMEN2 (NM_001253726) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KREMEN2 (NM_001253726) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KREMEN2
Synonyms:	KRM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG234056 representing NM_001253726 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGACACAAGCCCTGCAGGGCTTCTCTTTCTCTCTTCTCCGCTGCTGCAGCCGCTGGGGCT
 CGGCTGGGAGCCTGCACAGTCCAGGCCTGTCCGAATGCTTCCAGGTGAATGGGGTGACTACCGCGGCCA
 CCAGAACCGCACTGGCCCGCGGGGCGGGCCCGCTGCCTCTTCTGGGACCAGACGCAGCAACACAGC
 TACAGCAGCGCCAGCGACCCCGCGCCGCTGGGGCTGGGCGCGCAACTTCTGCCGTAACCCAGACG
 GTGACGTGCAGCCGTGGTGCTACGTGGCTGAGACAGAGGAGGCATCTACTGGCGCTACTGCGACATCCC
 CTCTGTACATGCCAGGCTACCTGGGATGCTTTGTGGACTCAGGGGCACCCCGAGCCCTCAGCGGCCCC
 AGCGGCACCTCCACGAAGCTCACGGTCCAGGTGTGCCTACGCTTCTGCCCATGAAGGGGTACAGCTGT
 GTGGCGGCGATGGGCGGCTGGGCGTCTATGAAGTGTGGTGGGCTCCTGCCAGGGGAACTGGACAGCGCC
 TCAGGGCGTCACTACTCCCGGACTTCCCGGACGAGTACGGGCCGACCGGAAGTGCAGCTGGGCCCTG
 GGCCCGCCAGGCGCGCGCTGGAGCTCACCTTCCGCTCTTCGAGCTGGCCGACCCGCGCGACCGGCTGG
 AGCTGCGCGACGCGGCTTCGGGCAGCCTGCTCCGCGCTTCGATGGCGCCCGCCACCGCGTCCGGGCC
 GCTGCGCTGGGCACTGCCGCGTGTGCTCACCTTCCGAAGCAGCGCGCGGCCACGCGCAAGGCTTC
 CGGCTCACCTACCGCGGGCTGCAGGACGCGCTGAGGACCCAGAGGCCCCGAGGGCTCGGCCAGACCC
 CCGCGGCGCCCTCGACGGGGCCAACGTGAGCTGCAGCCCCAGGCTGGGGCTCCGCGGCGCGATTGG
 GGCCCGGGTCTTCTCGACGGTGACGGCTGTCTCGGTGCTGCTGCTGCTCCTGGGGCTGCTGCGTCCG
 CTGCGCCGACGGAGCTGTCTGCTGGCTCCGGGAAAAGGGCCCCGCGCTGGGGGCTTCCAGGGGCCCA
 GGAGAAGCTGGGCTGTGTGTACCAACAGCCCCGAGGGTGGCCTTGCCCTGCTCCCCGGGGACCCCCA
 GGCTGAGGGTCTGCGCGGGCTACCGGCTCTGAGTGCCTCCAGCCAGAGCTCCTGCGCTCGCTCATC
 TCCGCTCTC

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG234056 representing NM_001253726
 Red=Cloning site Green=Tags(s)

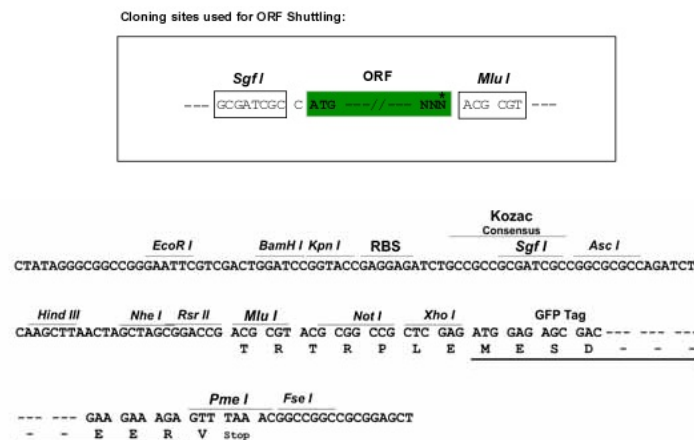
MG TQALQGFLFLLFLLPLLPQPGASAGSLHSPGLSECFQVNGADYRGHQNRTPRGAGRPCLFWDQTQQHS
 YSSASDPHGRWGLGAHNFCRNPDGVDVQWCYVAETEEGIYWRYCDIPSCHMPGYLGCFVDSGAPPALSGP
 SGTSTKLTVQVCLRFRCMKGYQLCGGDGRLGVYEVS VSGSCQGNWTAPQGVYISPDFPDEYGPDRNC SWAL
 GPPGAALLELTFRLFELADPRDRLELRDAASGSLLRADF GARPPPSGPLRLGTAALLLTFRSDARGHAQGF
 ALTYRGLQDAAEDPEAPEGSAQTPAAPLDGANVSCSPRGAPPAAGARVFSTVTAVSVLLLLLLGLLRP
 LRRRSCLLAPGKGPPALGASRGPRRSWAVWYQQPRGVALPCSPGDPQAEGSAAGYRPLSASSQSSLSLSL
 SAL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001253726

ORF Size: 1269 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_001253726.2](#)

RefSeq Size: 1951 bp

RefSeq ORF: 1272 bp

Locus ID: 79412

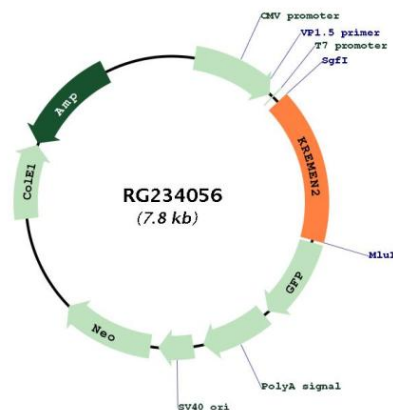
UniProt ID: [Q8NCW0](#)

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 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 RG234056