

Product datasheet for **RG202558**

KREMEN2 (NM_024507) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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: >RG202558 representing NM_024507
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGACACAAGCCCTGCAGGGCTTCTCTTTCTCCTCTTCTCCGCTGCTGCAGCCGCTGGGGCCT
CGGCTGGGAGCCTGCACAGTCCAGGCCTGTCCGAATGCTTCCAGGTGAATGGGGCTGACTACCGCGGCCA
CCAGAACCGCACTGGCCCGCGCGGGCGGGCCGCCCGTGCCTCTTCTGGGACCAGACGCAGCAACACAGC
TACAGCAGCGCCAGCGACCCCCACGGCCGCTGGGGCTGGGCGCGCACAATTTCTGCCGTAACCCAGACG
GTGACGTGCAGCCGTGGTGCTACGTGGCTGAGACAGAGGAGGGCATCTACTGGCGCTACTGCGACATCCC
CTCCTGTACATGCCAGGCTACCTGGGATGCTTTGTGGACTCAGGGGCACCCCCAGCCCTCAGCGCCCC
AGCGGCACCTCCACGAAGCTCACGGTCCAGGTGTGCCTACGCTTCTGCCGATGAAGGGTACCAGCTGG
CGGGCGTGGAGGCCGTTACGCCTGCTTCTGTGGCTCTGAAAGCGACCTGGCCCGGGACGCTGGCCCC
CGCCACCGACTGTGACCAGATCTGTTTCGGCCACCCTGGACAGCTGTGTGGCGCGATGGGCGGCTGGGC
GTCTATGAAGTGTGGTGGGCTCCTGCCAGGGGAAGTGACAGCGCCTCAGGGCGTCATCTACTCCCCGG
ACTTCCCGGACGAGTACGGGCCGACCGGAAGTGCAGCTGGGCCCTGGGCCCGCCAGGCGCCGCGCTGGA
GCTCACCTTCCGCTCTTCGAGCTGGCCGACCCGCGGACCGGCTGGAGCTGCGCGACGCGGCTTCGGGC
AGCCTGTCCGCGCCTTCGATGGCGCCGCCACCGCCGTCCGGGCGCTGCGCCTGGGCACCTGCCGCG
TGCTGCTCACCTTCCGAAGCGACGCGCGGCCACGCGCAAGGCTTCGCGCTCACCTACCGCGGGCTGCA
GGACGCCGCTGAGGACCCAGAGGCCCGAGGGCTCGGCCAGACCCCGCGCGCCCTCGACGGGGCC
AACGTGAGCTGCAGCCCAGGCTGGGGCTCCGCCGGCCGCGATTGGGGAGCTGTCTGCTGGCTCCGGG
AAAAGGGCCCCCGCGCTGGGGGCTTCCAGGGGCCCCAGGAGAAGCTGGGCTGTGTGGTACCAACAGCCC
CGAGGGGTGGCCTTGCCCTGCTCCCCGGGGACCCCCAGGCTGAGGGTTCTGCCGCGGGCTACCGGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



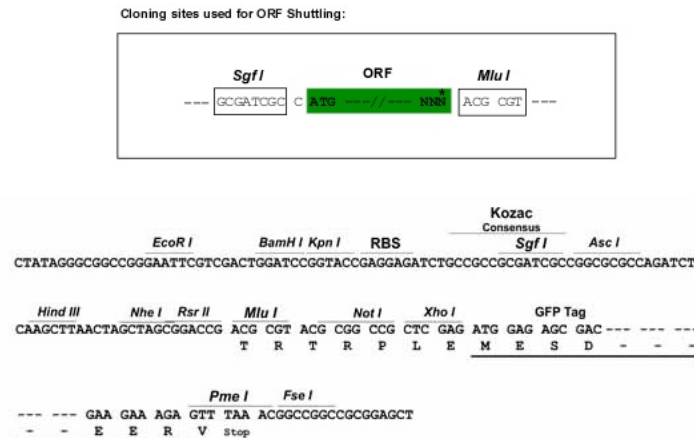
Protein Sequence: >RG202558 representing NM_024507
Red=Cloning site Green=Tags(s)

MGTQALQGFLFLLFLPLLQPRGASAGSLHSPGLSECFQVNGADYRGHQNRTGPRGAGRPCLFWDQTQQHS
YSSASDPHGRWGLGAHNFCRNPDPGDVQPCYVAETEEGIYWRYCDIPSCHMPGYLGCFVDSGAPPALSGP
SGTSTKLTVQVCLRFCRMKGQYLAGVEAGYACFCGSEDLARGRLAPATDCDQICFGHPGQLCGGDGRLG
VYEVSVGSCQGNWTAPQGVIIYSPDFPDEYGPDRNCWALGPPGALELTFRLFELADPRDRLELRDAASG
SLLRAFDGARPPPSGRLRLGTAALLLTFRSDARGHAQGFALTyrGLQDAEDPEAPEGSAQTPAAPLDGA
NVSCSPRPGAPAAIGGAVCWLRKGGPRRWGLPGAPGEAGLCGTNSPEGWPCAPPPTPRLRVLPRTGL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024507

ORF Size: 1260 bp

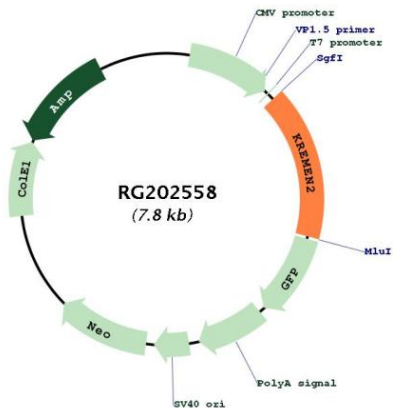
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_024507.4</u>
RefSeq Size:	1992 bp
RefSeq ORF:	1263 bp
Locus ID:	79412
UniProt ID:	<u>Q8NCW0</u>
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 RG202558