

Product datasheet for **RG219177**

KTEL1 (POGLUT1) (NM_020231) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KTEL1 (POGLUT1) (NM_020231) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KTEL1
Synonyms:	CLP46, MDSRP, C3orf9, MDS010, hCLP46, KDELCL1, MGC32995
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219177 representing NM_020231 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTGGTGGGCTAGCTCGCGCTTCGGCTCTGGCTGCTGTTGTTCTCCTGCCCTCAGCGCAGGGCC
 GCCAGAAGGAGTCAGGTTCAAAATGAAAGTATTTATTGACCAAATTAACAGGTCTTTGGAGAATTACGA
 ACCATGTTCAAGTCAAACTGCAGCTGTACCATGGTGTATAGAAGAGGATCTAACTCCTTTCCGAGGA
 GGCATCTCCAGGAGGATGATGGCAGAGGTAGTCAGACGGAAGCTAGGGACCCACTATCAGATCACTAAGA
 ACAGACTGTACCGGAAATGACTGCATGTTCCCTCAAGGTGTAGCGGTGTTGAGCACTTTATTTTGG
 AGTGATCGGGCGTCTCCCTGACATGGAGATGGTGTATCAATGTACGAGATTATCCTCAGGTTCTAAATGG
 ATGGAGCCTGCCATCCCAGTCTTCTCCTTCAGTAAGACATCAGAGTACCATGATATCATGTATCCTGCTT
 GGACATTTTGGGAAGGGGACCTGCTGTTTGGCAATTTATCCTACAGGTCTTGGACGGTGGGACCTCTT
 CAGAGAAGATCTGGTAAGGTGAGCAGCAGTGGCCATGGAAAAAGAAAACTCTACAGCATATTTCCGA
 GGATCAAGGACAAGTCCAGAACGAGATCCTCTCATTCTTCTGTCTCGAAAAACAAAACTTGTGATG
 CAGAATACACCAAAAACAGGCCTGGAATCTATGAAAGATACCTTAGGAAAGCCAGCTGCTAAGGATGT
 CCATCTTGTGGATCACTGCAAAATACAAGTATCTGTTAATTTTCGAGGCGTAGCTGCAAGTTTCCGGTTT
 AAACACCTCTTCTGTGTGGCTCACTTGTTCATGTTGGTGATGAGTGGCTAGAATTCTCTATCCAC
 AGCTGAAGCCATGGGTTCACTATATCCAGTCAAACAGATCTCTCAATGTCCAAGAGCTGTTACAATT
 TGTAAAGCAATGATGATGTAGCTCAAGAGATTGCTGAAAGGGGAAGCCAGTTTATTAGGAACCATTTG
 CAGATGGATGACATCACCTGTTACTGGGAGAACCTCTTGAGTGAATACTCTAAATTCCTGTCTTATAATG
 TAACGAGAAGGAAAGTTATGATCAAAATTATCCCAAAATGTTGAAAACCTGAACTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG219177 representing NM_020231
 Red=Cloning site Green=Tags(s)

MEWWASSPLRLWLLFLLLPSAQGRQKESGSKWKVFIHQINRSLENYEPCSSQNCSCYHGVIEEDLTPFRG
 GISRRMAEVVRRKLGTHYQITKNRLYRENDCMFSPRCSGVEHF ILEVIGRLPDMEMVINRDYPQVPKW
 MEPAIPVFSFSKTSEYHDIMYPAWTFWEGGPAVWPIYPTGLGRWDLFREDLVRSAQWPWKKNSTAYFR
 GSRTSPERDPLILLSRKNTKLVAEYTKNQAWKSMKDTLGKPAKDVHLVDHCKYKYLNFVRGVAASFRF
 KHLFLCGSLVFHVGDWLEFFYPQLKPWVHYIPVKTDLSNVQELLQFVKANDDVAQEIAERGSQFIRNHL
 QMDDITCYWENLLSEYSKFLSYNVTRRKGVDQIIPKMLKTEL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_020231

ORF Size: 1176 bp

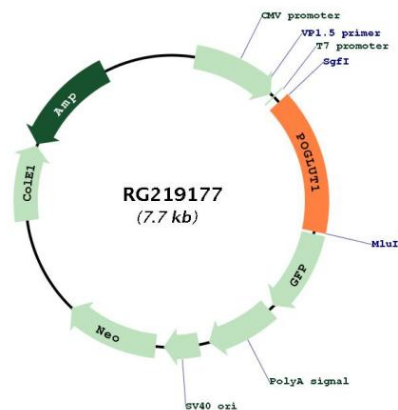
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_020231.3, NP_064616.2</u>
RefSeq Size:	1973 bp
RefSeq ORF:	1178 bp
Locus ID:	56983
Cytogenetics:	3q13.33
Domains:	CAP10
Gene Summary:	This gene encodes a protein with both O-glucosyltransferase and O-xylosyltransferase activity which localizes to the lumen of the endoplasmic reticulum. This protein has a carboxy-terminal KTEL motif which is predicted to function as an endoplasmic reticulum retention signal. This gene is an essential regulator of Notch signalling and likely plays a role in cell fate and tissue formation during development. It may also play a role in the pathogenesis of leukemia. Mutations in this gene have been associated with the autosomal dominant genodermatosis Dowling-Degos disease 4. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]

Product images:



Circular map for RG219177