

Product datasheet for **RG205992**

KTEL1 (POGLUT1) (NM_152305) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KTEL1 (POGLUT1) (NM_152305) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KTEL1
Synonyms:	C3orf9; CLP46; hCLP46; KDELCL1; KTELC1; LGMD2Z; LGMDR21; MDS010; MDSRP; Rumi
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205992 representing NM_152305 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTGGTGGGCTAGCTCGCGCTTCGGCTCTGGCTGCTGTTGTTCTCCTGCCCTCAGCGCAGGGCC
GCCAGAAGGAGTCAGGTTCAAAATGAAAGTATTTATTGACCAAATTAACAGGTCTTTGGAGAATTACGA
ACCATGTTCAAGTCAAACCTGCAGCTGCTACCATGGTGTATAGAAGAGGATCTAACTCCTTTCCGAGGA
GGCATCTCCAGGAGGATGATGGCAGAGGTAGTCAGACGGAAGCTAGGGACCCACTATCAGATCACTAAGA
ACAGACTGTACCGGAAAATGACTGCATGTTCCCCTCAAGGTGTAGCGGTGTTGAGCACTTTATTTTGG
AGTGATCGGGCGTCTCCCTGACATGGAGATGGTGTATCAATGTACGAGATTATCCTCAGGTTCTAAATGG
ATGGAGCCTGCCATCCCAGTCTTCTCCTTCAGTAAGACATCAGAGTACCATGATATCATGTATCCTGCTT
GGACATTTTGGGAAGGGGACCTGCTGTTTGGCAATTTATCCTACAGGTCTTGGACGGTGGGACCTCTT
CAGAGAAGATCTGGTAAGGTGAGCAGCAGTGGCCATGGAAAAAGAAAACTCTACAGCATATTTCCGA
GGATCAAGGACAAGTCCAGAACGAGATCCTCTCATTCTTCTGTCTCGAAAAACACAAACTTGTGATG
CAGAATACACAAAAACCAGGCTGAAATCTATGAAAGATACCTTAGGAAAGCCAGCTGCTAAGGATGT
CCATCTTGTGGATCACTGCAAAATACAAGTATCTGTTAATTTTCGAGGCGTAGCTGCAAGTTTCCGGTTT
AAACACCTTTCTGTGTGGCTCACTTGTTTTCCATGTTGGTGTAGTGGCTAGAATTCTCTATCCAC
AGCTGAAGCCATGGGTTCACTATATCCAGTCAAACAGATCTCTCAATGTCCAAGAGCTGTTACAATT
TGTAAGCAAAATGATGATGTAGCTCAAGAGATTGCTGAAAGGGGAGCCAGTTTATTAGGAACCATTTG
CAGATGGATGACATCACCTGTTACTGGGAGAACCTCTTGAGTGAATACTCTAAATTCCTGTCTTATAATG
TAACGAGAAGGAAAGTTATGATCAAAATATCCCAAAATGTTGAAAACCTGAACTA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA



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Protein Sequence: >RG205992 representing NM_152305
 Red=Cloning site Green=Tags(s)

```
MEWWASSPLRLWLLLFLPSAQGRQKESGSKWKVFDQINRSLNENYPCSSQNCSCYHGVEEDLTPFRG
GISRRMMAEVVRRKLGTHYQITKNRLYRENDMFPSPRCSGVEHF ILEVIGRLPDMEMVINVRDYPQVPKW
MEPAIPVFSFSKTSEYHDIMYPAWTFWEGGPAVWPIYPTGLGRWDLFREDLVRSAAQWPWKKKNSTAYFR
GSRTSPERDPLILLSRKNTKLVD AEYTKNQAWKSMKDTLGKPAAKDVHLVDHCKYKYLNFNRGVAASFRF
KHLFLCGSLVFHVGDWLEFFYPQLKPWVHYIPVKTDL SNVQELLQFVKANDDVAQEIAERGSQFIRNHL
QMDDITCYWENLLSEYSKFLSYNVTRRKYDQIIPKMLKTEL
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152305

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.

RefSeq: [NM_152305.1](#), [NP_689518.1](#)

RefSeq Size: 3538 bp

RefSeq ORF: 1179 bp

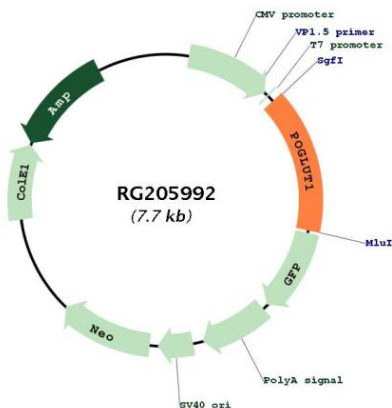
Locus ID: 56983

UniProt ID: [Q8NBL1](#)

Cytogenetics: 3q13.33

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 RG205992