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Product datasheet for SC127242

KTEL1 (POGLUT1) (NM_152305) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KTEL1 (POGLUT1) (NM_152305) Human Untagged Clone
Tag:	Tag Free
Symbol:	KTEL1
Synonyms:	C3orf9; CLP46; hCLP46; KDELCL1; KTELC1; LGMD2Z; LGMDR21; MDS010; MDSRP; Rumi
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_152305, the custom clone sequence may differ by one or more nucleotides

ATGGAGTGGTGGGCTAGCTCGCCGCTTCGGCTCTGGCTGCTGTTGTTCCTCCTGCCCTCAGCGCAGGGCC
GCCAGAAGGAGTCAGGTTCAAAATGGAAAGTATTTATTGACCAAATTAACAGGTCTTTGGAGAATTACGA
ACCATGTTCAAGTCAAAACTGCAGCTGCTACCATGGTGTCATAGAAGAGGATCTAACTCCTTTCCGAGGA
GGCATCTCCAGGAAGATGATGGCAGAGGTAGTCAGACGGAAGCTAGGGACCCACTATCAGATCACTAAGA
ACAGACTGTACCGGGAAAATGACTGCATGTTCCCCTCAAGGTGTAGTGGTGTTGAGCACTTTATTTTGGA
AGTGATCGGGCGTCTCCCTGACATGGAGATGGTGATCAATGTACGAGATTATCCTCAGGTTCCTAAATGG
ATGGAGCCTGCCATCCCAGTCTTCTCCTTCAGTAAGACATCAGAGTACCATGATATCATGTATCCTGCTT
GGACATTTTGGGAAGGGGGACCTGCTGTTTGGCCAATTTATCCTACAGGTCTTGGACGGTGGGACCTCTT
CAGAGAAGATCTGGTAAGGTCAGCAGCACAGTGGCCATGGAAAAAGAAAAACTCTACAGCATATTTCCGA
GGATCAAGGACAAGTCCAGAACGAGATCCTCTCATTCTTCTGTCTCGGAAAAACCCAAAACTTGTTGATG
CAGAATACACCAAAAACCAGGCCTGGAAATCTATGAAAGATACCTTAGGAAAGCCAGCTGCTAAGGATGT
CCATCTTGTGGATCACTGCAAATACAAGTATCTGTTTAATTTTCGAGGCGTAGCTGCAAGTTTCCGGTTT
AAACACCTCTTCCTGTGTGGCTCACTTGTTTTCCATGTTGGTGATGAGTGGCTAGAATTCTTCTATCCAC
AGCTGAAGCCATGGGTTCACTATATCCCAGTCAAAACAGATCTCTCCAATGTCCAAGAGCTGTTACAATT
TGTAAAAGCAAATGATGATGTAGCTCAAGAGATTGCTGAAAGGGGAAGCCAGTTTATTAGGAACCATTTG
CAGATGGATGACATCACCTGTTACTGGGAGAACCTCTTGAGTGAATACTCTAAATTCCTGTCTTATAATG
TAACGAGAAGGAAAGGTTATGATCAAATTATTCCCAAAATGTTGAAAACTGAACTATAG

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_152305 unedited
TTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCTGCAGTAGGTCT
GCCGGCGATGGAGTGGTGGGCTAGCTCGCCGCTTCGGCTCTGGCTGCTGTTGTTCCTCCT
GCCCTCAGCGCAGGGCCGCCAGAAGGAGTCAGGTTCAAAATGGAAAGTATTTATTGACCA
AATTAACAGGTCTTTGGAGAATTACGAACCATGTTCAAGTCAAAACTGCAGCTGCTACCA
TGGTGTCATAGAAGAGGATCTAACTCCTTTCCGAGGAGGCATCTCCAGGAAGATGATGGC
AGAGGTAGTCAGACGGAAGCTAGGGACCCACTATCAGATCACTAAGAACAGACTGTACCG
GGAAAATGACTGCATGTTCCCCTCAAGGTGTAGTGGTGTTGAGCACTTTATTTTGGAAGT
GATCGGGCGTCTCCCTGACATGGAGATGGTGATCAATGTACGAGATTATCCTCAGGTTCC
TAAATGGATGGAGCCTGCCATCCCAGTCTTCTCCTTCAGTAAGACATCAGAGTACCATGA
TATCATGTATCCTGCTTGGACATTTTGGGAAGGGGGACCTGCTGTTTGGCCAATTTATCC
TACAGGTCTTGGACGGTGGGACCTCTTCAGAGAGATCTGGTAGGTCAGCAGCACAGTGGC
CATGGAANAAGAAAAACTCTACAGCATATTTCCGAGGATCAAGGGACAGTCCAGAACGAG
ATCCTCTCATTCTTCTGTCTNCGAAAAACCCAAACTTGTTGATGCAGAATACACCAAAAC
CAGGCCTGGNAATCTATGAAGATCCTTTAGAAGCCAGCTGCTAAGATGTCATCTTGTGGA
TACTGCAATACAGTATCTGTTATTNTCGAGCGTACTGCAGTTNCCGGTTAACACC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_152305 unedited
GACCGAGGCCCGCCTCTAGNATCGAGTTTTTTTTTTTTTTTTTAGCTTTAGAGAGGCAT
TAAGAAGTAGGGCACTGAAGGCACCAAAAAGGGGAACCTCGAAATCCAATTGCAATAATT
ACTCATGCAATTGGCCTCTTTCTATGTGGCATTATAGAAACCTCCTGAGTAACAGAGTTT
ATGGTTTTACAAAAGAGAACTCCTACATCATTGCATGGCATGGCTACCGCTTCCTTAGAC
CATTCAGAGAATGATCCCCAAGTATTTTTCATAAACCCCATAGGGTTTCCTACATTAAAA
TAAAGTGACAGAGATCACGCCTTGAATAATTTCACAATTCCAGCAATGAGTTGTACTACT
TCCAAATGACGAATTTTCTGCTCCAAATAATGGGACAAAGGGCATCATCACATGGACACA
GTCAATTTCACAGTGATGGACTCACACAGGTGGATGATCTGAGGCACAAGCTGTGATTGG
TCTTAAGAAAATGAAAGGTAGAGTTGGGTTCAAAATCCACATCTCACGATTTCTGGTCCT
TATTCATCCAAAAAGTTGAACTGCTTCATATCAGTGTATTAGACACATTTTAAATCTTTC
TCAAGAGTTGCTCTGGGTGCAGCATGATAAGGAAAACCAGGTATTTGGCTTGATAGCAGA
TATTCAAGGTATAGGTGCCAAGCTTATGGGAAGCTTCTCACCGTAAGATATCTGAGATCT
CGTGCCACAAAGAGGACTATGGGCCTATGATGACTACTATAGTTCAGTTTTCAACCATTT
TGGGATTAATTTGATCCTAACCTTTCCTTCTCGTTCACTAATAGACCGGAATTTAGAGTA
TTCCTCCAGAGGTTCTCCCACAACAGGTGGTGTTACTCCATCTGCAAGGTCCCTAAAAAC
TGGTTTCCCTTTACCAACTCTGAGCTTCTT

Restriction Sites: NotI-NotI

ACCN: NM_152305

Insert Size: 1960 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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] Transcript Variant: This variant (1) represents the shorter transcript and is protein coding.