**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for SC113148

## KTEL1 (POGLUT1) (NM_020231) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | KTEL1 (POGLUT1) (NM_020231) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | KTEL1 |
| **Synonyms:** | CLP46, MDSRP, C3orf9, MDS010, hCLP46, KDELCL1, MGC32995 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**Fully Sequenced ORF:**

>OriGene ORF within SC113148 sequence for NM_020231 edited (data generated by NextGen Sequencing)

ATGGAGTGGTGGGCTAGCTCGCCGCTTCGGCTCTGGCTGCTGTTGTTCCTCCTGCCCTCA
GCGCAGGGCCGCCAGAAGGAGTCAGGTTCAAAATGGAAAGTATTTATTGACCAAATTAAC
AGGTCTTTGGAGAATTACGAACCATGTTCAAGTCAAAACTGCAGCTGCTACCATGGTGTC
ATAGAAGAGGATCTAACTCCTTTCCGAGGAGGCATCTCCAGGAAGATGATGGCAGAGGTA
GTCAGACGGAAGCTAGGGACCCACTATCAGATCACTAAGAACAGACTGTACCGGGAAAAT
GACTGCATGTTCCCCTCAAGGTGTAGCGGTGTTGAGCACTTTATTTTGGAAGTGATCGGG
CGTCTCCCTGACATGGAGATGGTGATCAATGTACGAGATTATCCTCAGGTTCCTAAATGG
ATGGAGCCTGCCATCCCAGTCTTCTCCTTCAGTAAGACATCAGAGTACCATGATATCATG
TATCCTGCTTGGACATTTTGGGAAGGGGGACCTGCTGTTTGGCCAATTTATCCTACAGGT
CTTGGACGGTGGGACCTCTTCAGAGAAGATCTGGTAAGGTCAGCAGCACAGTGGCCATGG
AAAAAGAAAAACTCTACAGCATATTTCCGAGGATCAAGGACAAGTCCAGAACGAGATCCT
CTCATTCTTCTGTCTCGGAAAAACCCAAAACTTGTTGATGCAGAATACACCAAAAACCAG
GCCTGGAAATCTATGAAAGATACCTTAGGAAAGCCAGCTGCTAAGGATGTCCATCTTGTG
GATCACTGCAAATACAAGTATCTGTTTAATTTTCGAGGCGTAGCTGCAAGTTTCCGGTTT
AAACACCTCTTCCTGTGTGGCTCACTTGTTTTCCATGTTGGTGATGAGTGGCTAGAATTC
TTCTATCCACAGCTGAAGCCATGGGTTCACTATATCCCAGTCAAAACAGATCTCTCCAAT
GTCCAAGAGCTGTTACAATTTGTAAAAGCAAATGATGATGTAGCTCAAGAGATTGCTGAA
AGGGGAAGCCAGTTTATTAGGAACCATTTGCAGATGGATGACATCACCTGTTACTGGGAG
AACCTCTTGAGTGAATACTCTAAATTCCTGTCTTATAATGTAACGAGAAGGAAAGGTTAT
GATCAAATTATTCCCAAAATGTTGAAAACTGAACTATAG

Clone variation with respect to NM_020231.3
224 g=>a;685 a=>c

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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_020231 unedited
TGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCTGCAGTAGGTCTGCC
GGCGATGGAGTGGTGGGCTAGCTCGCCGCTTCGGCTCTGGCTGCTGTTGTTCCTCCTGCC
CTCAGCGCAGGGCCGCCAGAAGGAGTCAGGTTCAAAATGGAAAGTATTTATTGACCAAAT
TAACAGGTCTTTGGAGAATTACGAACCATGTTCAAGTCAAAACTGCAGCTGCTACCATGG
TGTCATAGAAGAGGATCTAACTCCTTTCCGAGGAGGCATCTCCAGGAAGATGATGGCAGA
GGTAGTCAGACGGAAGCTAGGGACCCACTATCAGATCACTAAGAACAGACTGTACCGGGA
AAATGACTGCATGTTCCCCTCAAGGTGTAGCGGTGTTGAGCACTTTATTTTGGAAGTGAT
CGGGCGTCTCCCTGACATGGAGATGGTGATCAATGTACGAGATTATCCTCAGGTTCCTAA
ATGGATGGAGCCTGCCATCCCAGTCTTCTCCTTCAGTAAGACATCAGAGTACCATGATAT
CATGTATCCTGCTTGGACATTTTGNGAAGGGGGACCTGCTGTTTGGCCAATTTATCCTAC
AGGTCTTGGACGGTGGGACCTCTTCAGAGAAGATCTGGTAAGGTCACCAGCACAGTGGCC
ATGGAAAAAAAAAAACTCTACAGCATATTTCCGAGGATCAAGGACAAGTCCCGAACGAGA
TCCTCTCATTCTTCTGTCTCGGAAAACCCANAACTTGNTGATGCAGATTACACCAAAACC
CAGCCTGGGAATCTATGAAAGATCCCTTTAGAAGCCAGCTGCTAAGGATGTCCATCCTGG
GGGACACTGCACATACAATATCTGTTTAATTTCCCAAGCGTACCTGCAAGTTN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_020231 unedited
TGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGGCTTTAGAGAGCAT
TAAGAAGTAGGGCATGAAGGCACAAAAAGGGAACCTGAAATCCAATTGCAATAATTACTC
ATGCAATTGGCCTCTTTCTATGTGGCATTATAGAAACCTCCTGAGTAACACAGTTTATGG
TTTTACAAAAGAGAACTCCTACATCATTGCATGGCATGGCTACCGCTTCCTTAGACCATT
CAGAGAATGATCCCCAAGTATTTTTCATAAACCCCATAGGGTTTCCTACATTAAAATAAA
GTGACAGAGATCACGCCTTGAATAATTTCACAATTCCAGCAATGAGTTGTACTACTTCCA
AATGACGAATTTTCTGCTCCAAATAATGGGACAAAGGGCATCATCACATGGACACAGTCA
ATTTCACAGTGATGGACTCACACAGGTGGATGATCTGAGGCACAAGCTGTGATTGGTCTT
AAGAAAATGAAAGGTAGAGTTGGGTTCAAAATCCACATCTCACGATTTCTGGTCCTTATT
CATCCAAAAAGTTGAACTGCTTCATATCAGTGTATTAGACACATTTTAAATCTTTCTCAA
GAGTTGCTCTGGGTGCAGCATGATAAGGAAAACCAGGTATTTGGCTTGATAGCAGATATT
CAAGGTATAGGTGCCAAGCTTATGGTAAGCTTCTCACCGTAGGATATCTGAGATCTGTTG
CCACAAAGAGGACTATGGTCCTACGATGACTACTATAGTTCAGTTTTCACATTTTTGGGA
TAATTTGATCATACCTTTCCTTCTCNGTACATTATAGACAGGAATTAGAGTATCACTCAC
GAGTTCTCCCAGTACAGGTGATGTCATTCATCTGCAAATGTTCCCTATAACTGGCTTNCC
TTTNCAGCATCTCTGACTACATATCATTG

**Restriction Sites:** NotI-NotI

**ACCN:** NM_020231

**Insert Size:** 1780 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_020231.3, NP_064616.2

**RefSeq Size:** 1973 bp

**RefSeq ORF:** 1179 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]