

## Product datasheet for **MC217016**

### **Kdelc1 (NM\_023645) Mouse Untagged Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | Kdelc1 (NM_023645) Mouse Untagged Clone   |
| Tag:                      | Tag Free                                  |
| Symbol:                   | Kdelc1                                    |
| Synonyms:                 | 1810049A15Rik; 5730416C13Rik; EP58; Kdel1 |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-Entry (PS100001)                    |
| E. coli Selection:        | Kanamycin (25 ug/mL)                      |



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**Fully Sequenced ORF:** >MC217016 representing NM\_023645  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTTCAGCATTTCGCTGCTTTCTGCCTTTTTCTGGGGACTGTGCCAGCACTTGCCAGACCGGGGAG  
 AGAGGAGGCTGAGCCAGAGAAGAGCGAAATATGGGGACCCGGGCTAAAAGCACACGTGGTCCTTCTCTGC  
 CCGCTATTTCTACATTCGGGCGGTGGATACCTCAGGGGAACAGTTTACATCTTCTCCAGGTGAAAAGGTG  
 TTCCAGGTTAAAACTCAGCACCCGATGAGCAGTTCACGAGAGTTGGTGTCCAGGTTTTAGATCGAAAGG  
 ACGGTTCTTCATAGTAAGATACAGAATGTATGCCAGCTACAGAAATCTGAAGATAGAGGTTAAACACCA  
 TGGGCAACATGTTGCCGAGTCTCCTTATGTTTTAAGAGGACCAGTTTACCATGAGAACTGTGACTGTCTCT  
 TTGGAAGACAGTGCAGCCTGGCTACGGGAGATGAACTGTTCCGAAACAATCTCTCAGATTCAGAAAGATC  
 TGGCACATTTCCCTACTGTTGATCCTGAAAAGATTGCAGCAGAAATCCCAAAACGATTTGGGCAGAGGCA  
 AAGCCTGTGCTACTATACCTTAAAGGACAATAAGGTTTATATCAAGACTCATGGTGAACAGGTTGGCTTT  
 AGGATTTTCATGGATGCAATACTACTTTTATTGACTAGAAAGGTGAGGATGCCAGATGTGGAATTTTTTG  
 TTAATTTGGGAGACTGGCCTTTGGAAAAAAGAAATCCAACCTCCAACATTCAGCCGATCTTTTCTGGTG  
 TGGCTCCACAGAGTCCAGGGATATTGTGATGCCTACCTACGACCTGACTGACTCTGTTCTAGAAACCATG  
 GGCCGAGTAAGTCTGGATATGATGTCGGTGCAAGCTAACACAGGGCCTCCCTGGGAAAGTAAGAATTCCA  
 CAGCTGTCTGGAGGGGCCGAGACAGCCGAAAGAGAGACTAGAGCTGGTGAAGCTTAGCAGAAAACACCC  
 AGAGCTCATCGATGCTGCTTTCAAAAATTTTTCTTCTTTAAACATGACGAAAGCCTGTATGGGCCATC  
 GTGAAACACATTTCAATTTTTGATTTCTCAAGCACAAGTATCAGATAAATTTGATGGCACTGTGGCAG  
 CGTACCGATTGCCCTACCTGCTGGTGGGTGACAGTGTCTGTTCTGAAGCAGGACTCCATCTACTATGAACA  
 CTTTTACAATGAGCTGCAGCCCTGGAAACATTACATTCCAGTCAAAGTAACCTAAGCGATCTGCTAGAA  
 AAGCTCAAGTGGGCAAAAAGCATGATGCAGAGGCCAAGAAGATAGCAAAAGCAGGACAAGAATTTGCGA  
 GAAATAATCTAATGGGTGATGATATATTCTGTTATTACTTCAAAGTGTCCAGGGCTATGCAAAATTTACA  
 AGTGAGCGAGCCCAAAATTCGAGAGGGTATGAAGAGGGTATAGGCCACAATCCGAGGATGACCTCTCCCT  
 TGCACGTGCCATAGGAGAAAGGCCAAAGATGAACT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_023645
- Insert Size:** 1509 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\\_023645.3](#), [NP\\_076134.1](#)

**RefSeq Size:** 2324 bp

**RefSeq ORF:** 1509 bp

**Locus ID:** 72050

**UniProt ID:** [Q9JHP7](#)

**Cytogenetics:** 1 C1.1

**Gene Summary:** Protein glucosyltransferase that catalyzes the transfer of glucose from UDP-glucose to a serine residue within the consensus sequence peptide C-X-N-T-X-G-S-F-X-C. Can also catalyze the transfer of xylose from UDP-xylose but less efficiently. Specifically targets extracellular EGF repeats of proteins such as NOTCH1 and NOTCH3. May regulate the transport of NOTCH1 and NOTCH3 to the plasma membrane and thereby the Notch signaling pathway. [UniProtKB/Swiss-Prot Function]