

## Product datasheet for **SC314086**

### CDKAL1 (NM\_017774) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | CDKAL1 (NM_017774) Human Untagged Clone |
| Tag:                      | Tag Free                                |
| Symbol:                   | CDKAL1                                  |
| Mammalian Cell Selection: | None                                    |
| Vector:                   | <u><a href="#">pCMV6-XL6</a></u>        |
| E. coli Selection:        | Ampicillin (100 ug/mL)                  |



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**Fully Sequenced ORF:** >OriGene sequence for NM\_017774 edited  
 GGGACGTATGTGTCATGGCGCTCTCCATCTAAAGTCTGTGCAGCTTCCGGAGAGTGGCGG  
 GTTGATTTTCTCACTTTGGACTGGTATTACTTCCCGACTTCTGGACTCATCTTTCAAGA  
 GGACTTTAGACTAATTGCAGATAATTAAGAGAATATGCCTTCTGCATCCTGTGATACACT  
 ACTGGATGACATCGAAGATATCGTGTCTCAGGAAGATTCAAACCCACAAGATAGGCATTT  
 TGTAAAGAAAGGATGTTGTCCTCCGAAGGTACGAAGGCGAAATACCCAAAAATTTTGCAAGA  
 GGAAGAAAAACAGTCCACCAAGTGACAGCACTATTCCAGGCATACAGAAAAATTTGGATACG  
 AACATGGGGTGTCTCATAATAATTCAGATGGAGAATATATGGCTGGACAGCTAGCTGC  
 TTATGGCTATAAAATTACAGAAAAATGCATCCGATGCAGATTTATGGCTCCTGAACAGTTG  
 CACTGTAAAAAACCCAGCTGAAGACCACTTTAGAACTCAATTAAGAAAGCTCAAGAGGA  
 GAACAAGAAAAATCGTACTGGCTGGATGCGTTCTCAAGCCAGCCTCGCCAGGACTACCT  
 TAAGGGACTGAGTATCATTGGGGTTCAGCAGATAGATCGTGTGGTAGAAGTTGTGGAGGA  
 GACAATTAAGGTCACCTGTGAGACTGCTGGTCAGAAAAAGGATAATGGAAGGCGCT  
 TGGGGGAGCAGATTGGATTTGCCGAAGATTAGGAAGAATCCACTGATAGAAATCATTTTC  
 CATCAATACCGGGTGTCTCAATGCTTGTACCTACTGCAAACTAAACACGCCAGAGGAAA  
 TTTGGCCAGTTATCCAATTGATGAAGTACTAGATAGAGCCAAACAATCTTTTCAAGAGGG  
 TGTTTGTGAGATATGGTTGACCAAGTGAAGACACGGGGGCTTATGGCAGAGATATTGGCAC  
 CAATCTCCCCACACTCCTGTGAAAAGTGGTTGAAGTATTCTGAGGGAGCAATGCTGAG  
 GCTTGGCATGACAAATCCGCCCTATATTTAGAGCATCTGGAGGAAATGGCAAAAATCCT  
 TAATCACCCAGAGTCTACGCTTTTCTGCACATACCAAGTCCAGTCTGCCTCCGACAGCGT  
 ACTCATGGAATGAAAAGAGAATACTGTGTGGCTGACTTCAAAGAGTAGTGGATTTTCT  
 GAAAGAGAAAGTTCCTGGAATAACTATTGCTACAGATATTATCTGTGGTTTTCTGGAGA  
 AACAGATCAGGATTTTCAAGAAACAGTAAACTTGTGAAGAGTACAAATCCCAAGCCT  
 GTTTATTAACCAATTTTACCCAAGACCAGGAACCTCTGCTGCAAAAATGGAACAAGTTCC  
 AGCACAAGTGA AAAAGCAAGGACAAAAGATCTTCTCGGGTGTTCATTCTTACAGTCC  
 ATATGATCACAAGATTGGTGAAGACAACAAGTGTAGTAACAGAAGAATCTTTTGATTC  
 CAAGTTTTATGTTGCACACAATCAATTCTATGAGCAGGTTTTAGTGCCAAAGAACCCTGC  
 GTTCATGGGGAAGATGGTTGAAGTGGACATCTATGAATCAGGCAAAATTTTATGAAAGG  
 GCAGCCAGTATCTGATGCCAAAGTGTACACGCCCTCCATCAGCAAACCGCTAGCAAAGG  
 AGAAGTCTCAGGTTTGACAAAGGACTTCAGAAATGGGCTTGGGAACCAGCTGAGTTCAGG  
 ATCCCACACCTCTGCTGCATCTCAGTGTGACTCAGCGAGTCCAGAATGGTGTGCCAT  
 GCCAAGGCTACATCAAGACTGTGCGCTGAGGATGTCCGTGGGCTTGGCTCTGCTGGGTCT  
 TCTTTTGTCTTTTTTTGTCAAGGTCTATAATTAGAATACAATAATGAAACATCTATAA  
 AGAAGAATACATTTCTAATTAATAATCTTCAATGAACAGGAAAGCGACATCTCCATTCTCC  
 AAGGGCAATAATTTGACTGGTCATGCTGCCTCCTTCTCAGCCACTCTTCTTAATGAGGC  
 TCCCCCTGTCTCACATTGAGTTGGGCCATTGGTTATTTGACCTAAAACCTAATCACGGC  
 TACCATAGCACATCCTTCAAATTAAGTCTTTTGGTTTACTTTTAGCAAGAAATGCAAG  
 CGGTTGCATTTTTTCTGTTTGTCAATCTCTAATCTTAAGTCAGAACCTAATTTGTAC  
 AGTGGCTCTGGCCATCTTTTCTCATGTGGAAGAATTTTCTATCTTTAATAAACTTTTTTC  
 TTTGTTTTTTTTTCCAGATGGAGTTTCGCTCTTGTCCCCCAGGCTGGAGTGGTGCAGT  
 GCACGATCTCAGTCACTGCAACCTCTGCCTCCTGG

**Restriction Sites:** Please inquire  
**ACCN:** NM\_017774  
**Insert Size:** 2400 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).

|                               |   |
|-------------------------------|---|
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_017774.1</a> , <a href="#">NP_060244.1</a>   |
| <b>RefSeq Size:</b>           | 2642 bp   |
| <b>RefSeq ORF:</b>            | 1740 bp   |
| <b>Locus ID:</b>              | 54901   |
| <b>UniProt ID:</b>            | <a href="#">Q5VV42</a>  |
| <b>Cytogenetics:</b>          | 6p22.3  |
| <b>Domains:</b>               | TRAM, UPF0004, Elp3, Radical_SAM  |
| <b>Protein Families:</b>      | Transmembrane   |
| <b>Gene Summary:</b>          | The protein encoded by this gene is a member of the methylthiotransferase family. The function of this gene is not known. Genome-wide association studies have linked single nucleotide polymorphisms in an intron of this gene with susceptibility to type 2 diabetes. [provided by RefSeq, May 2010]  |