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 SC117209

CDC23 (NM_004661) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC23 (NM_004661) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC23
Synonyms:	ANAPC8; APC8; CUT23
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_004661, the custom clone sequence may differ by one or more nucleotides

ATGGCTGCGAGTACCTCCATGGTCCCGGTGGCTGTGACGGCGGCAGTGGCGCCTGTCCTGTCCATAAACA
GCGATTTCTCAGATTTGCGGGAAATTAAAAAGCAACTGCTGCTTATTGCGGGCCTTACCCGGGAGCGGGG
CCTACTACACAGTAGCAAATGGTCGGCGGAGTTGGCTTTCTCTCTCCCTGCATTGCCTCTGGCCGAGCTG
CAACCGCCTCCGCCTATTACAGAGGAAGATGCCCAGGATATGGATGCCTATACCCTGGCCAAGGCCTACT
TTGACGTTAAAGAGTATGATCGGGCAGCACATTTCCTGCATGGCTGCAATAGCAAGAAAGCCTATTTTCT
GTATATGTATTCCAGATATCTGTCTGGAGAAAAAAAGAAGGACGATGAAACAGTTGATAGCTTAGGCCCC
CTGGAAAAAGGACAAGTGAAAAATGAGGCGCTTAGAGAATTGAGAGTGGAGCTCAGCAAAAAACACCAAG
CTCGAGAACTTGATGGATTTGGACTTTATCTGTATGGTGTGGTGCTTCGAAAACTGGACTTGGTTAAAGA
GGCCATTGATGTGTTTGTGGAAGCTACTCATGTTTTGCCCTTGCATTGGGGAGCCTGGTTAGAACTCTGT
AACCTGATCACAGACAAAGAGATGCTGAAGTTCCTGTCTTTGCCAGACACCTGGATGAAAGAGTTTTTTC
TGGCTCATATATACACAGAGTTGCAGTTGATAGAGGAGGCCCTGCAAAAGTATCAGAATCTCATTGATGT
GGGCTTCTCTAAGAGCTCGTATATTGTTTCCCAAATTGCAGTTGCCTATCACAATATCAGAGATATTGAC
AAAGCCCTCTCCATTTTTAATGAGCTAAGGAAACAAGACCCTTACAGGATTGAAAATATGGACACATTCT
CCAACCTTCTTTATGTCAGGAGCATGAAATCGGAGTTGAGTTATCTGGCTCATAACCTCTGTGAGATTGA
TAAATATCGTGTAGAAACGTGCTGTGTAATTGGCAATTATTACAGTTTACGTTCTCAGCATGAGAAAGCA
GCCTTATATTTCCAGAGAGCCCTGAAATTAAATCCTCGGTATCTTGGTGCCTGGACACTAATGGGACATG
AGTACATGGAGATGAAGAACACGTCTGCTGCTATCCAGGCTTATAGACATGCCATTGAGGTCAACAAACG
GGACTACAGAGCTTGGTATGGCCTCGGGCAGACCTATGAAATCCTTAAGATGCCATTTTACTGCCTTTAT
TATTATAGACGGGCCCACCAGCTTCGACCCAATGATTCTCGCATGCTGGTTGCTTTAGGAGAATGTTACG
AGAAACTCAATCAACTAGTGGAAGCCAAAAAGTGTTATTGGAGAGCTTACGCCGTGGGAGATGTGGAGAA
AATGGCTCTGGTGAAACTGGCAAAGCTTCATGAACAGTTGACTGAGTCAGAACAGGCTGCCCAGTGTTAC
ATCAAATATATCCAAGATATCTATTCCTGTGGGGAAATAGTAGAACACTTGGAGGAAAGCACTGCCTTTC
GCTATCTGGCCCAGTACTATTTTAAGTGCAAACTGTGGGATGAAGCTTCAACTTGTGCACAAAAGTGTTG
TGCATTTAATGATACCCGGGAAGAAGGTAAGGCCTTACTCCGGCAAATCCTACAGCTTCGGAACCAAGGC
GAGACTCCTACCACCGAGGTGCCTGCTCCCTTTTTCCTACCTGCTTCACTCTCTGCTAACAATACCCCCA
CACGCAGAGTTTCTCCACTCAACTTGTCTTCTGTCACGCCATAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004661 unedited
NGGTTCATTTTTGTATACGACTCACTATAGGCGGCCGCGNAATTCGCACGAGCCTCCTGG
TCCCGGTGGCTGTGACGGCGGCAGTGGCGCCTGTCCTGTCCATAAACAGCGATTTCTCAG
ATTTGCGGGAAATTAAAAAGCAACTGCTGCTTATTGCGGGCCTTACCCGGGAGCGGGGCC
TACTACACAGTAGCAAATGGTCGGCGGAGTTGGCTTTCTCTCTCCCTGCATTGCCTCTGG
CCGAGCTGCAACCGCCTCCGCCTATTACAGAGGAAGATGCCCAGGATATGGATGCCTATA
CCCTGGCCAAGGCCTACTTTGACGTTAAAGAGTATGATCGGGCAGCACATTTCCTGCATG
GCTGCAATAGCAAGAAAGCCTATTTTCTGTATATGTATTCCAGATATCTGTCTGGAGAAA
AAAAGAAGGACGATGAAACAGTTGATAGCTTAGGCCCCCTGGAAAAAGGACAAGTGAAAA
ATGAGGCGCTTAGAGAATTGAGAGTGGAGCTCAGCAAAAAACACCAAGCTCGAGAACTTG
ATGGATTTGGACTTTATCTGTATGGTGTGGTGCTTCGAAAACTGGACTTGGTTAAAGAGG
CCATTGATGTGTTTGTGGAAGCTACTCATGTTTTGCCCTTGCATTGGGGAGCCTGGTTAG
AACTCTGNTACCTGATCACAGACAAGAGATGCTGAAGTTCCTGTCTTTGCCAGACACCTG
GATGAAAGAGTTNTTTTCTGGGCTCATATATACACAGAGTTGCAGTTGATAGAGGGAGGC
CCTGCAAAAGTATCAGAATCTCATTGATGTGGGGCTTCTCTAAGAGCTCGTATATTGGTT
NNCCAAATGCCAGNTGCCTATCACAATATCAGAGATATTGACCAAGCCCTCTCCATTTTA
ATGAGCTAANGAAAAA

3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_004661 unedited
ATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTATTGTTCACATTTTTTATTGAATTCCAAA
TGTAGCAAAATCATTAAAACAAATTATAAAAGGGACAGAAAAATTAAGAATCAAACATCA
TTCTGGACCATGGGAACCTTGAAAAGGCATGGCAGTGGAGACCAGTAACTAGTATACAGC
TTGCCTGAGAAGGCTTAGTAACAAATGAATTCAAGTCGTATTAGATATTCTAAACCTTCC
TTAATATAAGATGAAGTGTCATATGTTAGGAGGTAAAAACGTAACACAAAATTCTGGGAA
TAAGAATAAAGTCTGGACCCTGAGCTCAGAATGATCCATAGCATCTACTGTGCAAATATA
TTACAGCAGACATTATAGCATATTACCTCCTGCTGTACACACATGCACAGGCCTGAAACT
CTCCAAGAGCACCATAAGAATGATTCCCTTTACCTCATCTAGATAAAGGCTGAAAAAAAT
GTATTCTGTTGCAGATGGGAGGGAAAAAAATAGACAATTACGTTGAAAATTTATTAAAAC
AGACCAGCTTGAAGTGAGTTTATTCTTGTCTGTATAATCACCAATGTTATTTCCAAATGT
CCGTGAAATTATCTATAATCCTATCTCCTTGCTTGCTTTGGTAGGAGTATAGCTAACAAT
ATAGCCATCTTTTGCCCTCAGTAAGGGCTATCAGCAGTTCCAAGCTCTGTGAGATATTNT
TGCCCTTCTTTTATTCAACTCTAGTGATAAAGNTACTTNCAATTTGAAANGCTTAGNAAG
ACCCCNCCAAACTGTTTGGAAGATTGTCTCCCTAGAGAGTAGAACAATGATAGCTCTATT
CATTTAAACCTATCTCTGACATAAATAGGGGACATGCTCAGCAATCCAGAGCAGGGNCAT
TGACCATGNTCTGACTCTTCTAGGGACTAANGCCTACTGCCCTAAGGTAAGGGGAAACTT
CTCCTTTTTTCTTCACAGAATGAACTTTGTCTGGACATGCTGGGCTAGGCTAAAAGGACT
TTTGGGGC
```

Restriction Sites: NotI-NotI

ACCN: NM_004661

Insert Size: 3490 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_004661.2, NP_004652.1

RefSeq Size: 3169 bp

RefSeq ORF: 1776 bp

Locus ID: 8697

UniProt ID: Q9UJX2

Cytogenetics: 5q31.2

Domains:	TPR, APC8
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation, Ubiquitin mediated proteolysis
Gene Summary:	The protein encoded by this gene shares strong similarity with Saccharomyces cerevisiae Cdc23, a protein essential for cell cycle progression through the G2/M transition. This protein is a component of anaphase-promoting complex (APC), which is composed of eight protein subunits and highly conserved in eukaryotic cells. APC catalyzes the formation of cyclin B-ubiquitin conjugate that is responsible for the ubiquitin-mediated proteolysis of B-type cyclins. This protein and 3 other members of the APC complex contain the TPR (tetratricopeptide repeat), a protein domain important for protein-protein interaction. [provided by RefSeq, Jul 2008]