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Product datasheet for SC108297

CDCA7L (NM_018719) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	CDCA7L
Synonyms:	JPO2; R1; RAM2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC108297 sequence for NM_018719 edited (data generated by NextGen Sequencing)

ATGGAGTTGGCGACTCGCTACCAGATCCCTAAAGAAGTGGCTGACATCTTTAACGCCCCC
AGTGATGATGAAGAGTTTGTTGGCTTCCGAGATGATGTTCCCATGGAAACCCTCTCGTCA
GAGGAGAGCTGTGATAGTTTTGACTCACTAGAGTCAGGGAAACAGCAGGATGTGCGCTTT
CATTCCAAATACTTCACAGAAGAGCTAAGAAGAATTTTTATAGAGGACACTGACTCAGAG
ACTGAGGATTTTGCAGGATTTACGCAGAGTGATCTGAATGGAAAGACTAACCCAGAAGTA
ATGGTCGTGGAGTCAGATTTGAGTGATGATGGCAAAGCATCTTTGGTGAGCGAGGAAGAG
GAAGATGAAGAAGAAGATAAGGCTACCCCTAGAAGAAGCAGGTCTAGAAGAAGTAGTATT
GGTCTTCGAGTAGCCTTTCAGTTCCCCACCAAGAAGCTGGCCAACAAACCAGATAAAAAC
AGTTCTTCCGAGCAGTTGTTTTCTAGCGCACGCTTACAGAATGAGAAAAAAACAATTCTT
GAAAGAAAGAAAGACTGTAGACAGGTGATACAAAGGGAAGATTCTACCTCTGAGTCTGAG
GATGACTCTCGGGATGAGAGCCAGGAGAGTTCAGATGCTTTGCTGAAAAGGACCATGAAC
ATCAAGGAGAACAAAGCCATGCTTGCCCAGTTATTGGCGGAATTGAACTCGATGCCAGAT
TTCTTCCCAGTACGAACCCCAACCTCAGCTTCTAGGAAGAAGACAGTGAGGCGGGCCTTC
TCGGAGGGACAGATCACGCGGCGTATGAACCCAACCCGGAGTGCGCGGCCTCCTGAGAAG
TTTGCTCTAGAGAACTTCACTGTCTCAGCCGCTAAATTTGCGGAAGAGTTTTACAGCTTC
CGAAGAAGGAAGACAATTGGGGGGAAATGCCGGGAGTACAGACGACGTCACCGTATATCT
TCTTTTCGGCCAGTGGAGGATATCACCGAAGAGGACTTAGAAAATGTTGCCATAACTGTT
CGAGATAAAATCTATGATAAAGTTCTGGGTAACACGTGCCATCAGTGTCGACAAAAGACC
ATCGACACCAAGACAGTGTGTCGGAACCAGGGTTGCTGTGGTGTGCGAGGACAGTTCTGT
GGACCATGCCTGCGGAACCGCTATGGGGAGGATGTCAGATCGGCATTGCTGGACCCGGAT
TGGGTGTGTCCCCCCTGTCGTGGGATCTGCAATTGCAGCTACTGTCGGAAGCGTGACGGC
CGCTGTGCCACAGGAATCCTCATTCATCTGGCCAAGTTTTATGGTTATGACAATGTTAAG
GAATATCTGGAGAGCTTACAAAAGGAGCTGGTAGAAGACAATTAA

Clone variation with respect to NM_018719.4
132 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018719 unedited

GGGGGGCGGGGCTGCTTTTTCCCCCCCGGGTTCAGATTTGTATACGATTACTATAGGCGG
CCGCGAATTCGCACGAGGCGTTCTTGGTGCGCCGGGCCGTGGTGAGTCCGGGCTCCCGTG
GCCGCGTGCTGGGAGGAGACTGGAGCCCGGTTAGGAAGAATGGAGTTGGCGACTCGCTAC
CAGATCCCTAAAGAAGTGGCTGACATCTTTAACGCCCCCAGTGATGATGAAGAGTTTGTT
GGCTTCCGAGATGATGTTCCCATGGAAACCCTCTCGTCAGAGGAGAGCTGTGATAGTTTT
GACTCACTAGAGTCAGGGAAACAGCAGGATGTGCGCTTTCATTCCAAATACTTCACAGAA
GAGCTAAGAAGAATTTTTATAGAGGACACTGACTCAGAGACTGAGGATTTTGCAGGATTT
ACGCAGAGTGATCTGAATGGAAAGACTAACCCAGAAGTAATGGTCGTGGAGTCAGATTTG
AGTGATGATGGCAAAGCATCTTTGGTGAGCGAGGAAGAGGAAGATGAAGAAGAAGATAAG
GCTACCCCTAGAAGAAGCAGGTCTAGAAGAAGTAGTATTGGTCTTCGAGTAGCCTTTCAG
TTCCCCACCAAGAAGCTGGCCAACAAACCAGATAAAAACAGTTCTTCCGAGCAGTTGTTT
TCTAGCGCACGCTTACAGAATGAGAAAAAAACAATTCTTTGAAGAAAGAAAGACTGTAGA
CAGGTGATACAAAGGGAAGATTCTACCTTCTGAGTCTTGAGATGACTCTCGGGATGAAAG
CCAGGAGAGTTCAAATGCTTTTGCTTGAAAAGGACCATGTACATTCAGGGAGAACCAAAG
CCATGCTTGGCCCAGTTATTTGGCGGAAATGGACCTCGATGCCAAATTTTTTTCCCATGA
CGAAACCCCATCCTCAGGTTTTTAAGGAGCAAGACCAATGAGGCGGGTCCTTCTCGGAGG
ACCCGAATACACCGCCGTTTGAACACCACCCGGTGGCGCCGCCTCCG

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_018719 unedited
TGGCGTGTGTTATTGCATCAAACAACTGGCATCTTATCATTAGTAGCAATCTGCCACACA
ATTGCAACCGCTGTGTTTTTGCCATAGGCGCCCGCTGGGACACCCAAGCAGGAACCATTG
TTGAAGCCCGTCTCAAGGAGCTGGCATGCCCTATGCCGGTCATCTTTGCAAAAGCCACCC
CCGTGGACAGACAAGAAACCAAACAGACCTACGAGTGCCCTGTGTATAGAACCAAACTGA
GAGGCCCCAGCTACATCTGGACCTTCAGGCTGAAGAGCGAAGAGAAGACTGCAAAATGGG
TTCTGGCTGGAGTGGCTCTGCTTCTAGAAGCGTAAGGTAACACTGGCATTCCTCTAGCCT
CTGCTGGAGTGCAGTGAGGATTTTCTAGCATGTTGCTGCACTGTTCCCATGCACATTATT
CTAACTTTTTAGTAACTCACACGTGCATTCTTTTTTCAACGCTATCCTTAGAGTGAAAGT
CAGAAAAAAATACTAGAAACTAACTCAAGGCTGAGCGTGGTGGGACACGACTGTAATCCC
AGTTACTCAAGAGGTAAGAGAATCACTTGAACCTATGAAGCAAAGGTTGCAGTGAGCCGA
GGTTGCACCACTGCACTCCCTCCTGAGCAACAGAACAAGACTCCATCTCAAAAAAAAAAA
AGTACATCATAAAAGTACATCATATGTGAACATGCAAAAGCATTGCAGGCCGTAAGAACG
GAGATTCTAATTTTTAACAACAACAAATAAATTATTAGCCCTTAAACTCTTTCAAATATA
AAACAGGCAGCCCCAGGTGAGTCCTGAAGGAGAGGCTACACTCTGTAAGCCTCCANGTCT
ACAAGTGATGGGCCCTTTTGTTAATTAAGTTTTAAAAAAAAAATGTTCTAAGTTATTGAC
TTTGCTCAGGGAATTCCAAGACCAAGCAGTTAAACAGGGGGGGGCATAAT
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Restriction Sites: NotI-NotI

ACCN: NM_018719

Insert Size: 3330 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_018719.2, NP_061189.2

RefSeq Size: 2874 bp

RefSeq ORF: 1365 bp

Locus ID: 55536

UniProt ID: Q96GN5

Cytogenetics: 7p15.3

Gene Summary: Plays a role in transcriptional regulation as a repressor that inhibits monoamine oxidase A (MAOA) activity and gene expression by binding to the promoter. Plays an important oncogenic role in mediating the full transforming effect of MYC in medulloblastoma cells. Involved in apoptotic signaling pathways; May act downstream of P38-kinase and BCL-2, but upstream of CASP3/caspase-3 as well as CCND1/cyclin D1 and E2F1.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes the predominant and longest protein (isoform 1).