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Product datasheet for SC111607

CDC25A (NM_201567) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC25A (NM_201567) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC25A
Synonyms:	CDC25A2
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_201567, the custom clone sequence may differ by one or more nucleotides

ATGGAACTGGGCCCGGAGCCCCCGCACCGCCGCCGCCTGCTCTTCGCCTGCAGCCCCCCTCCCGCGTCGC
AGCCCGTCGTGAAGGCGCTATTTGGCGCTTCAGCCGCCGGGGGACTGTCGCCTGTCACCAACCTGACCGT
CACTATGGACCAGCTGCAGGGTCTGGGCAGTGATTATGAGCAACCACTGGAGGTGAAGAACAACAGTAAT
CTGCAGAGAATGGGCTCCTCCGAGTCAACAGATTCAGGTTTCTGTCTAGATTCTCCTGGGCCATTGGACA
GTAAAGAAAACCTTGAAAATCCTATGAGAAGAATACATTCCCTACCTCAGAAGCTGTTGGGATGTAGTCC
AGCTCTGAAGAGGAGCCATTCTGATTCTCTTGACCATGACATCTTTCAGCTCATCGACCCAGATGAGAAC
AAGGAAAATCTTTCCTCAAATGAAAGAGATAGCAGTGAACCAGGGAATTTCATTCCTCTTTTTACACCCC
AGTCACCTGTGACAGCCACTTTGTCTGATGAGGATGATGGCTTCGTGGACCTTCTCGATGGAGAGAATCT
GAAGAATGAGGAGGAGACCCCCTCGTGCATGGCAAGCCTCTGGACAGCTCCTCTCGTCATGAGAACTACA
AACCTTGACAACCGATGCAAGCTGTTTGACTCCCCTTCCCTGTGTAGCTCCAGCACTCGGTCAGTGTTGA
AGAGACCAGAACGATCTCAAGAGGAGTCTCCACCTGGAAGTACAAAGAGGAGGAAGAGCATGTCTGGGGC
CAGCCCCAAAGAGTCAACTAATCCAGAGAAGGCCCATGAGACTCTTCATCAGTCTTTATCCCTGGCATCT
TCCCCCAAAGGAACCATTGAGAACATTTTGGACAATGACCCAAGGGACCTTATAGGAGACTTCTCCAAGG
GTTATCTCTTTCATACAGTTGCTGGGAAACATCAGGATTTAAAATACATCTCTCCAGAAATTATGGCATC
TGTTTTGAATGGCAAGTTTGCCAACCTCATTAAAGAGTTTGTTATCATCGACTGTCGATACCCATATGAA
TACGAGGGAGGCCACATCAAGGGTGCAGTGAACTTGCACATGGAAGAAGAGGTTGAAGACTTCTTATTGA
AGAAGCCCATTGTACCTACTGATGGCAAGCGTGTCATTGTTGTGTTTCACTGCGAGTTTTCTTCTGAGAG
AGGTCCCCGCATGTGCCGGTATGTGAGAGAGAGAGATCGCCTGGGTAATGAATACCCCAAACTCCACTAC
CCTGAGCTGTATGTCCTGAAGGGGGGATACAAGGAGTTCTTTATGAAATGCCAGTCTTACTGTGAGCCCC
CTAGCTACCGGCCCATGCACCACGAGGACTTTAAAGAAGACCTGAAGAAGTTCCGCACCAAGAGCCGGAC
CTGGGCAGGGGAGAAGAGCAAGAGGGAGATGTACAGTCGTCTGAAGAAGCTCTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_201567 unedited
ACTTATAGGCGGCCCGCGAATTCGGCACGAAGGCTCTGCGAGGCCGGGCGCCGCCATGNA
ACTGGGCCCGGAGCCCCCGCACCGCCGCCGCCTGCTCTTCGCCTGCAGCCCCCCTCCCGC
GTCGCAGCCCGTCGTGAAGGCGCTATTTGGCGCTTCAGCCGCCGGGGGACTGTCGCCTGT
CACCAACCTGACCGTCACTATGGACCAGCTGCAGGGTCTGGGCAGTGATTATGAGCAACC
ACTGGAGGTGAAGAACAACAGTAATCTGCAGAGAATGGGCTCCTCCGAGTCAACAGATTC
AGTTTCTGTCTAGATTCTCCTGGGCCATTGGACAGTAAAGAAAACCTTGAAAATCCTATG
AGAAGAATACATTCCCTACCTTAAGCTGTTGGGGAATGTAGTCCAGCTCTGAAGAGGAGC
CATTCTGATTCTCTTGACCATGACATCTTTCAGCTCATCGACCCAGATGAGAACAAGGAA
AATCTTTCCTCAAATGAAAAGAATAGCAGTGACCAGGGAATTTCATTCCTCTTTTTACAC
CCCAGTCACCTGTGACGNCACTTTGTCTGAGGAGGATGATGGGTTTCGTGGACCTTCTCG
ATGGAGAGATCTGAGATGGAGGGGGAGACCCCTCGTGCTGGAAGCCTCTGACAGTCCTCT
CGTATGAGACTACAACCTTGCACCGGCAAAGCGTGTTGATCCTCCCCTGTGACTCCACCC
GGCCAGGGTGGGGAGAACCNAACGACTCAAGAGGGTCCCCGGGAATAAAGGAGGAAAAAT
ATTGTGGGGGGCACCCCAGAGCACTATCCNAAAGGCCAGAACTTTCTTAANCTTATCTGC
TCTCCCAAGCCCTTGGAAAATTGGCAGACAGCCTTTAGGATTCTCCAGGTATCTTTAAAG
GGGGAAAAAGGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_201567 unedited
AGCTTTGGACCCGCGGCCGCAATCTAGAAGTCGGTTTTTTTTTTTTTTTTTTTGGGTTC
AAGATCTTTTATTTTCAGAGCTTCCAACAGTTGGTTAGTAATGCTAGCTAAGCTGGTATA
ATCTGAAGGCCATCCCACCTTTCTCTTTAGGCAGTCAACCAACAGAATCTCTTTCTTACA
AACAATATCATTAACCAGTTGGAATCTGTCTCAATGCGCGTGTAGGAAGAAGTCCTCTCC
CCCACATTTTTCCCAACAAGATTGTTTTATAGCCAAATGTAACTCAAACCCGTAACACAG
CAACTAGCCATCTCCAGTATCACTGATTCCCACCCCAAGAAGTTGAGGTAAGAGGGGAGA
GACTGTCTCCTGTTTAAGAAAAACCCACCTACACCTCAGTGAAGCCGTGATGGTAAGGAG
GCTGGCACCAGAGGGCAGGGATGAGTAGGCACTGAAACAGGGCTCTCTAGAATCAATGAA
GGCTGCCCCAGCTCCTTGGATGAGGTGGNAGTCTGAAACTCCCAGCCCCCTGGGCTCGCT
AGCGCGGACGCCCGCGCCCNNCCCACACCCATTGGGTTTCCCCGCCACCCCCCGACCCAG
GGGNAAGCGCGCACCGTGACACCGCCGCGCCCCTACCTCTCGCAGAGCACGGCCGGCCAG
AGTCGGGCCGAGGGGCGNNACCCCAGCTACGGTGCCGCCAATGCCCACGGTCTCCGACCC
CCCCTCCCCCCCCGCCNCGTCTGCACCCCCGCGCCCCGCCGTCGATGTGCCCGTTGGCGG
ACCGCCGCCGCCCGCTCGGNACACCGCCCACCCGCGCCGCGACGCGATTCCACGAGGGCG
GCGAGGCCGCCCGTCGCCGCAATGCCCGCGGAGCCACGCGGCCGACGTACGCTCCGCTAT
AGCGGGTTGACACAGTCACCGCGCGCCCAGCGTCTNCAGACGAGTCGAGAGGGGCGAGCC
TCATGCCGACGCAGCNGACGCGCAGAGGCGCAGTGAGCCGACACACGCGGACACGC

Restriction Sites: NotI-NotI

ACCN: NM_201567

Insert Size: 3220 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_201567.1, NP_963861.1
RefSeq Size:	3597 bp
RefSeq ORF:	1455 bp
Locus ID:	993
UniProt ID:	P30304
Cytogenetics:	3p21.31
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Cell cycle, Progesterone-mediated oocyte maturation
Gene Summary:	CDC25A is a member of the CDC25 family of phosphatases. CDC25A is required for progression from G1 to the S phase of the cell cycle. It activates the cyclin-dependent kinase CDC2 by removing two phosphate groups. CDC25A is specifically degraded in response to DNA damage, which prevents cells with chromosomal abnormalities from progressing through cell division. CDC25A is an oncogene, although its exact role in oncogenesis has not been demonstrated. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.