

Product datasheet for **SC116736**

CCDC6 (NM_005436) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCDC6 (NM_005436) Human Untagged Clone
Tag:	Tag Free
Symbol:	CCDC6
Synonyms:	D10S170; H4; PTC; TPC; TST1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005436, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGACAGCGCCAGCGAGAGCGACACGGACGGGGCGGGGGCAACAGCAGCAGCTCGGCCGCCATGC
AGTCGTCTGCTCGTTCGACCTCGGGCGGCGGGTGGCGCGGGGGAGGCGGCGGCGGTGGGAAGTCGGG
GGGCATTGTCTCGCCGTTCCGCCTGGAGGAGCTCACCAACCGCCTGGCCTCGCTGCAGCAAGAGAAC
AAGGTGCTGAAGATAGAGCTGGAGACCTACAACTGAAGTGAAGGCACTGCAGGAGGAGAACCAGCACC
TGCGCAAAGCCAGCGTGACCATCAAGCCAGGGCTGAGCAGGAAGAAGAATTCATTAGTAACACTTTATT
CAAGAAAATTCAGGCTTTCAGAAAGGAGAAAGAAACCCCTTGCTGTAATATGAGAAAGAAGAAGAAATTC
CTCACTAATGAGCTCTCCAGAAAATGATGCAGTTGCAGCATGAGAAAGCCGAAGTGAACAGCATCTTG
AACAAAGAGCAGGAATTCAGGTCAACAACTGATGAAGAAAATTAAGAACTGGAGAATGACACCATTTTC
TAAGCAACTTACATTAGAACAGTTGAGACGGGAGAAAGATTGACCTTGAATAACATTGGAACAAGAACAA
GAAGCACTAGTTAATCGCCTCTGGAAAAGGATGGATAAGCTTGAAGTGAAGGCAATCCTGCAGGAAA
AATTAGACCAGCCGCTCTGCTCCACCATCGCCTAGAGATATCTCCATGGAGATTGATTCTCCAGAAAA
TATGATGCGTCACATCAGGTTTTAAAGAATGAAGTGAACGGCTGAAGAAGCAACTGAGAGCTGCTCAG
TTACAGCATTGAGAGAAAATGGCACAGTATCTGGAGGAGGAACGTCACATGAGAGAAGAGAAGCTTGGGC
TCCAGAGGAAGCTGCAGAGGGAGATGGAGAGAAGAGAAGCCCTCTGTCGACAGCTCTCCGAGAGTGAGTC
CAGCTTAGAAAATGGACGACGAAAGGTATTTAATGAGATGTCTGCACAAGGATTAAGACCTGCAGCTGTG
TCCAGCCCGATCCCTTACACACCTTCTCCGAGTTCAAGCAGGCCTATATCACCTGGTCTATCATATGCAA
GTCACACGGTTGGTTTACGCCCAACTTCACTGACTAGAGCTGGAATGTCTTATTACAATTTCCCGGG
TCTTACGTGCAGCACATGGGAACATCCATGGTATCACAAGGCCTTACCACGGAGAAGCAACAGTCCT
GACAAATCAAACGGCCACGCCCTCCATCTCCCAACACAGACCCAGTCCAGCCACTCCGCCTC
CACCTCCGCCACCATGCAGCCACGGTCCCCTCAGCAGCCACTCGCAGCCTACTCCTTCGCAACATTC
GGCGCACCCCTCCTCCAGCCTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005436 unedited
 CAGAATTTTGTAAACGACTCACTATAGGGGCGGCCGATTTCGGCACGAGGCAGCCCGC
 CGCGGCCATGGCGGACAGCGCCAGCAGAGCGACACGGACGGGGCGGGGGCAACAGCAG
 CAGCTCGGCCGCCATGCAGTCGTCTGCTCGTGCACCTCGGGCGGCGGGTGGCGGCGG
 GGGAGGCGGCGGGTGGGAAGTCGGGGGCATTGTCATCTCGCCGTTCCGCCTGGAGGA
 GCTCACCACCGCTGGCCTCGCTGCAGCAAGAGAACAAGGTGCTGAAGATAGAGCTGGA
 GACTACAAAAGTGAAGTGAAGGCAAGTGCAGGAGGAGAACCAGCCTGCGCAAAGCCAG
 CGTTACCATCCAAGCCAGGGCTGAGCAGGAAGAAGAATTCATTAGTAACACTTTATTCAA
 GAAAATTCAGGCTTTGCAGAAGGAGAAAGAAACCTTGCTGTAATTTATGAGAAAGAA
 AGAATTCCTCACTAATGAGCTCTCCAGAAAATTGATGCAGTTGCAGCATGAGAAAGCCGA
 ACTAGAACAGCATCTTGAACAAGAGCAGGAATTCAGGTCAACAACTGATGAAGAAAAT
 TAAAAAAGTGGAGAATGACACCTTTCTAAGCACTTACATTAGAACAGTTGAGACGGGA
 GAAGATTGACCTTGAANATACATTGGAACAAGAACAAGAAGCACTAGTTAATCGCCTCTG
 GAAAAGGATGGATAAGCTTGAAGCTGNAAGCGAATCCTGCAGGAAAAATTAGACCAGCC
 CGTCTCTGCTCCACCATCGNCTAGAGATATCTCCATGGAGATTGATTCTCCAGAAATAT
 GATGCGTCACATCAGTTTTTAAGAATGAAGTGGACGGCTGAAGAAGCACTGAGAGCTGC
 TCAGTTACAGCTTTCAAGAAAATNCACAGTATCTGGAGGAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005436 unedited
 CCGCGCCCACTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTCCCGCAAAGGAAACCAATGATTTATTTGGGCTAAAGGAAGGAAATAAT
 GTTTTCAAATAACTTTTTGACCCCTGCACTTGCTTACGGGGGAAATGAACAGCC
 ATCAAGGCTAAGGGGCTACTTTCTTTAAACCTTATTTTTTTTTCTGCCAAGCAATCAA
 TATTTTTTGGCCTTTATGCCAAAATAATGCAATAATGCCATTTCAAATAGTATTTTCTA
 AGGGTATTTGGCCCTTTAAAATATTTGTTCAAACCTATTTTTAAAAAACCCAAATGAA
 GTCCAAAGGGGGAAACCCGCTTTGTTTTGTTACAATCACACTGCCTTTTGCAGCAAAAA
 TCAAATAACACTTTCTAATTACCCATTGAAACCACCGGGGAGTAGGACAACATTTATCGA
 CTCATGTTAAAGGGGCCAGGTTAAGTAAATTAACCTTAAAGGATAAAAAAGAAAATCACT
 TCTTAATATCCAATAATTATCCATCCCATTTATGGGGAGAAGGTACGCCACATGATTCAT
 TACTTTGGGCCATCTGTTTTACGAAAGACATGGATGTCAATACCACAATGAAAATAACCT
 GTAAAAAATGTATCTGTAAGAAAGTTCTGTTAAACAAAAAATATGTCTTGGGCACTGGAT
 CATCTAACTTTCTGTTCTACACTGAAAGCCAAATTTTCAAAGGTCTGAAATTGGAGGGCT
 AGATTATNGGGTATTGTTGGGAAAACCCATTATAATGAGAGGAGTTACCAACAGCTCAT
 TATTTTCTGCAGATTCATGGAAAAATTTAAAAAGAATTCCTTTTTTTCTTTTACAAACC
 CTAACCCGAAAATGAAGCTTTGGCCAANCAAAATTGCACCTGCTGCTGAAATACCAAN

Restriction Sites:

NotI-NotI

ACCN:

NM_005436

Insert Size:

2680 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_005436.2](#), [NP_005427.2](#)

RefSeq Size: 5842 bp

RefSeq ORF: 1425 bp

Locus ID: 8030

UniProt ID: [Q16204](#)

Cytogenetics: 10q21.2

Protein Pathways: Pathways in cancer, Thyroid cancer

Gene Summary: This gene encodes a coiled-coil domain-containing protein. The encoded protein is ubiquitously expressed and may function as a tumor suppressor. A chromosomal rearrangement resulting in the expression of a fusion gene containing a portion of this gene and the intracellular kinase-encoding domain of the ret proto-oncogene is the cause of thyroid papillary carcinoma.[provided by RefSeq, Sep 2010]