

## Product datasheet for **RC201585**

### CCDC22 (NM\_014008) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCDC22 (NM_014008) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CCDC22
Synonyms:	CXorf37; JM1; RTSC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC201585 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGAGGCGACCGAATCCTCATCCATTGCTGCGCCAGGCCGGCACGGCAGTTCTCCAGATGTGC  
 AGACCTTGC GCGCTTACCACCTGAGCTGGTTGTAGAGGCTGTGGTCCGCTGCCTGCGTGTGATCAACCC  
 TGGCGTGGGCTCTGGCCTCAGCCCTCTGCTGCCTCTTGCCATGTCTGCCCGTTCCGCTGGCCATGAGC  
 CTGGCTCAGGCTGCATGGACCTGGGCTATCCCTTGGAGCTTGGCTATCAGAACTTCTCTACCCAGTG  
 AGCCTGACCTCCGAGACCTGTTCTCTTCTTGGCTGAGCGTCTGCCACCGATGCCTCTGAGGATGCAGA  
 CCAGCCTCGAGGTGACTCAGCTATTCTCTCCGGGCCATTGGGAGCCAAATTCGGGACCAGCTGGCACTG  
 CCTTGGGTCGCCCCACCTTCGACTCCAAGCTGCAGCACCTCCAGGGCTCGGCCCTCCAGAAGCCTT  
 TCCATGCCAGCAGGCTGGTCTGCCAGAATTGAGTTCCAGAGGTGAGCCACGGGAGTTCCAGGCGAGTCC  
 CCTGCTGCTTCCAGTCCCTACCCAGGTGCCTCAGCCTGTTGGAAGGGTGGCTCGCTCCTCGAACCCAT  
 GCCTGCAGCTCTGCCAGCAGACGGGCCGGGACCAGGGATGAGGACTGGGTCCACCCGGACATCCC  
 GCCTCCCACCCAGGAGGACACACGGGCTCAGCGGCAGCGGCTGCAGAAGCAACTGACTGAGCATCTGCG  
 CCAAAGCTGGGGCCTGCTTGGGGCCCCATAACAAGCCGGGACCTGGGAGAACTGCTGCAGGCTGGGGT  
 GCTGGGGCCAAGACTGGTGTCTTAAGGGCTCCCGCTTACGCACTCAGAGAAGTTCACCTTCCATCTGG  
 AGCCCCAGGCCAGGCCACTCAGGTGTGAGATGTGCCAGCCACCTCCCGCGGCCGAACAGGTACAGTG  
 GGCAGCTCAGGAACAGGAGCTCGAGTCCCTTGGGAGCAGCTGGAAGGAGTGAACCGCAGCATTGAGGAG  
 GTTGAGGCCGACATGAAGACCTGGGCGTCAGCTTGTGAGGAGGAGTCTGAGTCCCGGCACAGCAAGC  
 TCAGTACAGCAGAGCGTGCAGCGCCCTGCGCCTGAAGAGCCGCGGTTGGAGCTGCTGCCGATGGGAC  
 TGCCAACCTTGCCAAGCTGCAGCTTGTGGTGGAGAATAGTGCCACGCGGTCATCCACTTGGCGGGTCAG  
 TGGGAGAAGCACCGGTCCTCCTCGCTGAGTACCGCCACCTCCGAAAGCTGCAGGATTGCAGAGAGC  
 TGGAACTTCTCGACGGCTGGCAGAGATCCAAGAAGTGCACCAGAGTGTCCGGGCGGCTGCTGAAGAGGC  
 CCGCAGGAAGGAGGAGTCTATAAGCAGCTGATGTGAGAGCTGGAGACTTGCCAGAGATGTGTCCCGG  
 CTGGCCTACCCAGCGCATCCTGGAGATCGTGGGCAACATCCGGAAGCAGAAGGAAGAGATCACCAGA  
 TCTTGTCTGATACGAAGGAGCTTCAAGGAAATCACTCCCTATCTGGGAAGCTGGACCGGACGTTTGC  
 GGTGACTGATGAGCTTGTGTTCAAGGATCCAAGAAGGACGATGCTGTTCCGAAGGCTATAAGTATCTA  
 GCTGCTCTGCACGAGAACTGCAGCCAGCTCATCCAGACATCGAGGACACAGGCACCATCATGCGGGAGG  
 TTCGAGACCTCGAGGAGCAGATCGAGACAGAGCTGGGCAAGAAGACCCTCAGCAACTGGAGAAGATCCG  
 GGAGGACTACCGAGCCCTCCGCCAGGAGAACGCTGGCCTCCTAGGCCGGTCCGGGAGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC201585 protein sequence  
 Red=Cloning site Green=Tags(s)

MEEADRILIHSLRQAGTAVPPDVQTLRAFTTEL VVEAVVRCLRVINPAVGSGLSPLLPLAMSARFRLAMS  
 LAQACMDLGYPLELGYQNFLYPSEPDRLDLLFLAERLPTDASEDADQPAGDSAILLRAIGSQIRDQLAL  
 PWVPPHLRTPKLQHLQGSALQKPFHASRLVPELSSRGEPREFQASPLLLPVPTQVPQVGRVASLLEHH  
 ALQLCQQTGRDRPGDEDVWHRTSRLPPQEDTRAQRQLKQLTEHLRQSWGLLGAPIQARDLGELLQAWG  
 AGAKTGAPKGSRFTHSEKFTFHLEPQAQATQVSDVPATSRRPEQVTWAAQEQELESLEQLEGVNRSIEE  
 VEADMKTLGVSFVQAESECRHSLSTAEREQALRLKSRVELLPDGTANLAKLQLVVENSAQRVIHLAGQ  
 WEKHRVPLLAEYRHLRKLQDCRELESSRRLAEIQELHQSVRAAAEEARRKEEVYKQLMSELETLPDVS  
 R LAYTQRILEIVGNIRKQKEEITKILSDTKELQKEINLSGKLDRTFAVTDELVFKDAKKDDAVRKAYKYL  
 AALHENCSQLIQTIEDTGTIMREVRDLEEQIETELGKTLNLEKIREDYRALRQENAGLLGRVREA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6541\\_f08.zip](https://cdn.origene.com/chromatograms/mk6541_f08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014008

**ORF Size:** 1881 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_014008.3](#)

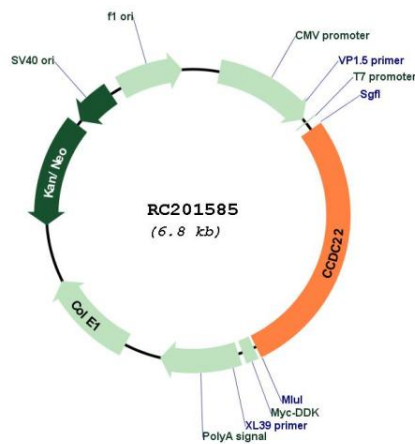
**RefSeq Size:** 2333 bp

**RefSeq ORF:** 1884 bp

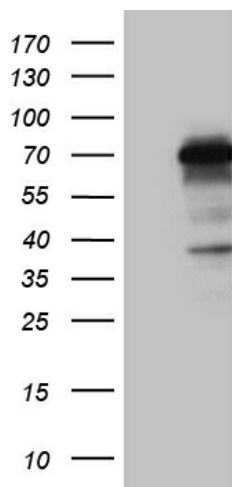
**Locus ID:** 28952  
**UniProt ID:** [O60826](#)  
**Cytogenetics:** Xp11.23  
**MW:** 70.8 kDa

**Gene Summary:** This gene encodes a protein containing a coiled-coil domain. The encoded protein functions in the regulation of NF- $\kappa$ B (nuclear factor kappa-light-chain-enhancer of activated B cells) by interacting with COMMD (copper metabolism Murr1 domain-containing) proteins. The mouse orthologous protein has been shown to bind copines, which are calcium-dependent, membrane-binding proteins that may function in calcium signaling. This human gene has been identified as a novel candidate gene for syndromic X-linked intellectual disability. [provided by RefSeq, Aug 2013]

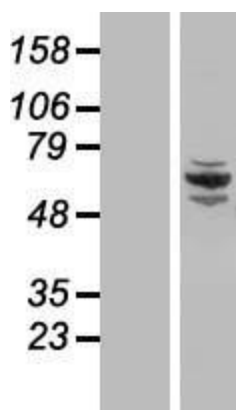
### Product images:



Circular map for RC201585



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CCDC22 (Cat# RC201585, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CCDC22 (Cat# [TA811111])(1:2000). Positive lysates [LY415538] (100ug) and [LC415538] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415538]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201585 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).