

## Product datasheet for **RG201585**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CCDC22 (NM_014008) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CCDC22
Synonyms:	CXorf37; JM1; RTSC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG201585 representing NM\_014008  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGAGCGGACCGAATCCTCATCCATTTCGTCGCCAGGCCGGCACGGCAGTTCTCCAGATGTGC  
 AGACCTTGCGCGCCTTACCACCTGAGCTGGTTGTAGAGGCTGTGGTCCGCTGCCTGCGTGTGATCAACCC  
 TCGCGTGGGCTCTGGCCTCAGCCCTCTGCTGCCTCTTGCATGTCTGCCCGTTCCGCTGGCCATGAGC  
 CTGGCTCAGGCCTGCATGGACCTGGGCTATCCCTTGGAGCTTGGCTATCAGAACTTCTCTACCCAGTG  
 AGCCTGACCTCCGAGACCTGTTCTCTTCTTGGCTGAGCGTCTGCCACCGATGCCTCTGAGGATGCAGA  
 CCAGCCTCGAGGTGACTCAGCTATTCTCTCCGGGCCATTGGGAGCCAAATTCGGGACCAGCTGGCACTG  
 CCTTGGGTCCCGCCACCTTCGACTCCCAAGCTGCAGCACCTCCAGGGCTCGGCCCTCCAGAAGCCTT  
 TCCATGCCAGCAGGCTGGTCTGCCAGAATTGAGTTCCAGAGGTGAGCCACGGGAGTTCCAGGCGAGTCC  
 CCTGCTGCTTCCAGTCCCTACCCAGGTGCCTCAGCCTGTTGGAAGGGTGGCTCGCTCCTCGAACCCAT  
 GCCTGCAGCTCTGCCAGCAGACGGGCCGGGACCAGGGGATGAGGACTGGGTCCACCCGGACATCCC  
 GCCTCCCACCCAGGAGGACACACGGGCTCAGCGGCAGCGGCTGCAGAAGCAACTGACTGAGCATCTGCG  
 CCAAAGCTGGGGCCTGCTTGGGGCCCCATAACAAGCCGGGACCTGGGAGAACTGCTGCAGGCCTGGGGT  
 GCTGGGGCCAAGACTGGTGTCTTAAGGGCTCCCGCTTACGCACTCAGAGAAGTTCACCTTCCATCTGG  
 AGCCCCAGGCCAGGCCACTCAGGTGTCAGATGTGCCAGCCACCTCCCGCGGCCGAACAGGTACAGTG  
 GGCAGCTCAGGAACAGGAGCTCGAGTCCCTTGGGAGCAGCTGGAAGGAGTGAACCGCAGCATTGAGGAG  
 GTTGAGGCCGACATGAAGACCTGGGCGTCAGCTTGTGCAGGAGCTGAGTGCCGGCACAGCAAGC  
 TCAGTACAGCAGAGCTGAGCAGGCCCTGCGCCTGAAGAGCCGCGGTTGGAGCTGCTCCCGGATGGGAC  
 TGCCAACCTTGCCAAGCTGCAGCTTGTGGTGGAGAATAGTGCCACGCGGTCATCCACTTGGCGGGTCAG  
 TGGGAGAAGCACCGGTCCTCCTCGCTGAGTACCGCCACCTCCGAAAGCTGCAGGATTGCAGAGAGC  
 TGGAACTTCTCGACGGCTGGCAGAGATCCAAGAAGTGCACCAGAGTGTCCGGGGCGGCTGCTGAAGAGGC  
 CCGCAGGAAGGAGGAGTCTATAAGCAGCTGATGTGAGAGCTGGAGACTTGCCAGAGATGTGTCCCGG  
 CTGGCCTACCCAGCGCATCCTGGAGATCGTGGGCAACATCCGGAAGCAGAAGGAAGAGATCACCAAGA  
 TCTTGTCTGATACGAAGGAGCTTCAAGGAAATCAACTCCCTATCTGGGAAGCTGGACCGGACGTTTGC  
 GGTGACTGATGAGCTTGTGTTCAAGGATGCAAGAAGGACGATGCTGTTCCGAAGGCTATAAGTATCTA  
 GCTGCTCTGCACGAGAAGTGCAGCCAGCTCATCCAGACATCGAGGACACAGGCACCATCATGCGGGAGG  
 TTCGAGACCTCGAGGAGCAGATCGAGACAGAGCTGGGCAAGAAGACCCTCAGCAACCTGGAGAAGATCCG  
 GGAGGACTACCGAGCCCTCCGCCAGGAGAAGCTGGCCTCCTAGGCCGGTCCGGGAGGCC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG201585 representing NM\_014008  
 Red=Cloning site Green=Tags(s)

MEEADRILIHSLRQAGTAVPPDVQTLRAFTTELVEAVVRCLRVINPAVGSGLSPLLPLAMSARFRLAMS  
 LAQACMDLGYPLELGYQNFLYPSEPDRLDLLFLAERLPTDASEDADQPAGDSAILLRAIGSQIRDQLAL  
 PWVPPHLRTPKLQHLQGSALQKPFHASRLVPELSSRGEPREFQASPLLLPVPTQVPQVGRVASLLEHH  
 ALQLCQQTGRDRPGDEDVWHRTSRLPPQEDTRAQRQLQKQLTEHLRQSWGLLGAPIQARDLGELLQAWG  
 AGAKTGAPKGSRFTHSEKFTFHLEPQAQATQVSDVPATSRRPEQVTWAAQEQELESLEQLEGVNRSIEE  
 VEADMKTLGVSFVQAESECRHSLKSTAEREQALRLKSRVELLPDGTANLAKLQLVVENSQRVIHLAGQ  
 WEKHRVPLLAEYRHLRKLQDRELESSRRLAEIQELHQSVAEAEARRKEEVYQQLMSELETLPDVS  
 LAYTQRILEIVGNIRKQKEEITKILSDTKELQKEINLSGKLDRTFAVTDDELVFKDAKKDDAVRKAYKYL  
 AALHENCSQLIQTIEDTGTIMREVRDLEEIQIETELGKTLNLEKIREDYRALRQENAGLLGRVREA

**TRTRPLE** – GFP Tag – V

**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:** 2715 bp

**RefSeq ORF:** 1884 bp

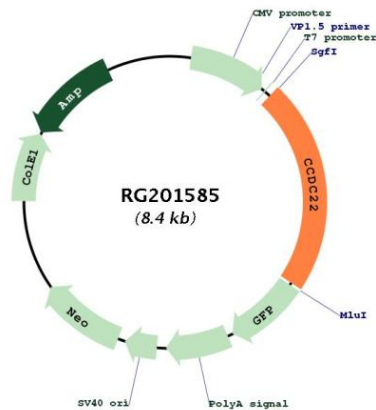
**Locus ID:** 28952

**UniProt ID:** [O60826](#)

**Cytogenetics:** Xp11.23

**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 RG201585