

## Product datasheet for **RC219512**

### Cadherin 22 (CDH22) (NM\_021248) Human Tagged ORF Clone

#### Product data:

|                           |                                                        |
|---------------------------|--------------------------------------------------------|
| Product Type:             | Expression Plasmids                                    |
| Product Name:             | Cadherin 22 (CDH22) (NM_021248) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                                |
| Symbol:                   | Cadherin 22                                            |
| Synonyms:                 | C20orf25; dJ998H6.1                                    |
| Mammalian Cell Selection: | Neomycin                                               |
| Vector:                   | pCMV6-Entry (PS100001)                                 |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                   |



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**ORF Nucleotide  
Sequence:**

>RC219512 representing NM\_021248  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**

ATGAGGCCGAGGCCGAAGGTAGGGGGCTCCGGCGGGAGTCGCGCTGTCCCCGCGCTACTGCTGCTGC  
 TGCTGCTGCCGCCGCCGCGACGCTGCTGGGGCGCCTGTGGGCAGCGGGACACCCTCGCCGTCCGCGCC  
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 ACGGGGCCATCAAGTACACCATCTCAGGCGAGGGTGCTGGGACCATCTTCTGATCGACGAGCTGACAGG  
 CGACATTCATGCCATGGAGCGCTGGACCGCGAGCAGAAAACCTTCTACACGCTGCGGGCCAGGCTCGG  
 GATCGCGCCACCAACCGCTACTGGAGCCGAGTCGGAGTTCATCATCAAGGTGCAGGACATCAATGACA  
 GTGAGCCCCGCTTCTGACGGCCCTATATTGGCAGCGTGGCCGAGCTCTCACCTACAGGCACGTCGGT  
 GATGCAGGTGATGGCCTCGGATGCGGATGACCCACGTACGGCAGCAGCGCTCGGCTGGTGTACAGCGTG  
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 CAAGGTACCACAGACAGCGACACTCAGGAGGCCATCATCGTAGTGCAGAAGCGCCTGGACTTCGAATCC  
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 CACAGTGCTGGCCATGGAGGCGGACAATCATGCACAGCTATCCCGGGCATCCCTAAGGATCCGAATCCTG  
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 CCTGGTGCCTGAAGCTCCAGCAACCTCATTCTCTCTGCTTGACATCCAAGACAACACCGCTGCAGTG  
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 CGGCCACCGCGGGGACGACGAGGCCAGGCCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
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**Protein Sequence:** >RC219512 representing NM\_021248  
 Red=Cloning site Green=Tags(s)

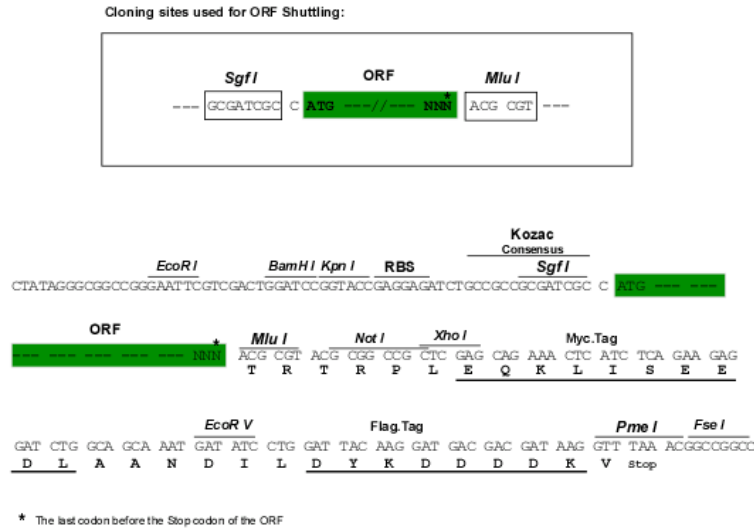
MRPRPEGRGLRAGVALSPALLLLLLPPPTLLGRLWAAGTPSPSAPGARQDGLGAGRVKRGWVWNQFF  
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 DRATNRLLEPESEFIKIQDINDSEPRFLHGPYIGSVAELSPTGTSVMQVMASDADPTYGSSARLVYSV  
 LDGEHHFTVDPKTGVIRTAVPDLDRSQERYEVVIQATDMAGQLGGLSGSTTVTIIVTDVNDNPPRFPQK  
 MYQFSIQESAPIGTAVGRVKAEDSDVGENTDMTYHLKDESSGGDVFKVTTDSDTQEAIIIVQKRLDFES  
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 PDAANRPVRYAIDRESLDQIFDIDADTGAIVTGKGLDRETAGWHNITVLAMEADNHAQLSRASLRIRIL  
 DVNDNPPELATPYEAAVCEDAKPGQLIQTISVVDREPPQGGHRFYFRLVPEAPSNPHFSLLDIQDNTAAV  
 HTQHVGFNRQEQDVFFLPILVVDSPPTLSSTGTLTIRICGCDSSGTIQSCNTTAFVMAASLSPGALIAL  
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 DGGGSAGGGAGGGSGGGAGSPQAHLPSERHSLPQGPPSPEPDFSVFRDFISRKVALADGDLVPPYDAF  
 QTYAFEGADSPAASLSSLHSGSSGSEQDFAYLSSWGPRFRPLAALYAGHRGDDEAQAAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8116\\_b01.zip](https://cdn.origene.com/chromatograms/mk8116_b01.zip)

**Restriction Sites:** Sgfi-MluI

Cloning Scheme:



|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACCN:           | NM_021248                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ORF Size:       | 2484 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. <a href="#">More info</a> |
| 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.

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

**RefSeq:** [NM\\_021248.3](#)

**RefSeq Size:** 3675 bp

**RefSeq ORF:** 2487 bp

**Locus ID:** 64405

**UniProt ID:** [Q9UJ99](#)

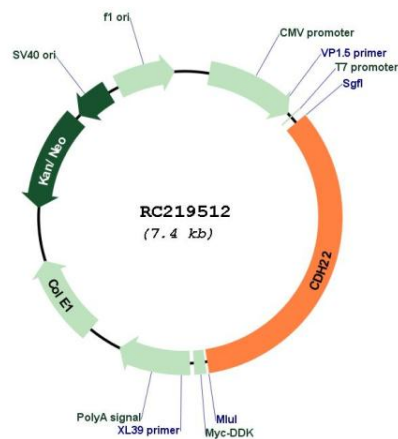
**Cytogenetics:** 20q13.12

**Protein Families:** Transmembrane

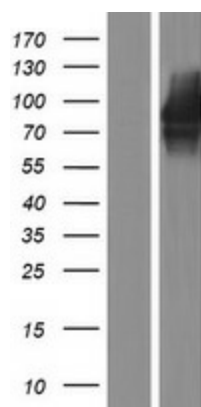
**MW:** 85.5 kDa

**Gene Summary:** This gene is a member of the cadherin superfamily. The gene product is composed of five cadherin repeat domains and a cytoplasmic tail similar to the highly conserved cytoplasmic region of classical cadherins. Expressed predominantly in the brain, this putative calcium-dependent cell adhesion protein may play an important role in morphogenesis and tissue formation in neural and non-neural cells during development and maintenance of the brain and neuroendocrine organs. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RC219512



Western blot validation of overexpression lysate (Cat# [LY412000]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219512 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).