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Product datasheet for RG219512

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:	TurboGFP
Symbol:	Cadherin 22
Synonyms:	C20orf25; dJ998H6.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG219512 representing NM_021248
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGCCGAGGCCCGAAGGTAGGGGGCTCCGGGCGGGAGTCGCGCTGTCCCCCGCGCTACTGCTGCTGC
TGCTGCTGCCGCCGCCGCCGACGCTGCTGGGGCGCCTGTGGGCAGCGGGCACACCCTCGCCGTCGGCGCC
CGGAGCTCGGCAGGACGGCGCGCTGGGAGCCGGCCGCGTCAAACGCGGCTGGGTGTGGAACCAGTTCTTC
GTGGTAGAGGAGTACACGGGCACGGAGCCCCTGTATGTGGGCAAGATCCACTCCGACTCAGACGAGGGTG
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CGACATTCATGCCATGGAGCGCCTGGACCGCGAGCAGAAAACCTTCTACACGCTGCGGGCCCAGGCTCGG
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CAAGGTCACCACAGACAGCGACACTCAGGAGGCCATCATCGTAGTGCAGAAGCGCCTGGACTTCGAATCC
CAGCCCGTGCACACCGTGATCCTGGAGGCCCTCAACAAGTTCGTGGACCCCCGCTTCGCCGACCTGGGCA
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GCCAGCTCATCCAGACCATCAGCGTGGTGGACAGAGACGAGCCCCAAGGCGGGCACCGCTTCTATTTCCG
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CAGACCTACGCCTTCGAGGGCGCGGACTCGCCGGCCGCCTCGCTCAGCTCCCTGCACAGCGGCTCGTCGG
GCTCCGAGCAGGACTTCGCCTATCTCAGCAGCTGGGGTCCGCGCTTCCGGCCCCTGGCCGCGCTCTACGC
CGGCCACCGCGGGGACGACGAGGCCCAGGCCTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

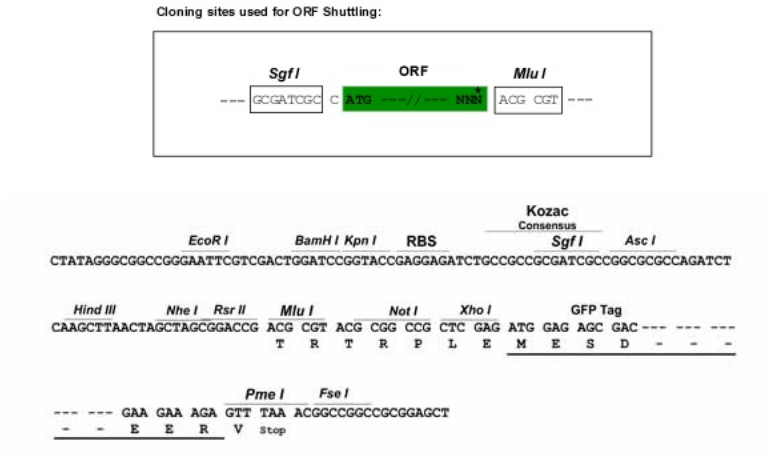
>RG219512 representing NM_021248
Red=Cloning site Green=Tags(s)

MRPRPEGRGLRAGVALSPALLLLLLLPPPPTLLGRLWAAGTPSPSAPGARQDGALGAGRVKRGWVWNQFF
VVEEYTGTEPLYVGKIHSDSDEGDGAIKYTISGEGAGTIFLIDELTGDIHAMERLDREQKTFYTLRAQAR
DRATNRLLEPESEFIIKVQDINDSEPRFLHGPYIGSVAELSPTGTSVMQVMASDADDPTYGSSARLVYSV
LDGEHHFTVDPKTGVIRTAVPDLDRESQERYEVVIQATDMAGQLGGLSGSTTVTIVVTDVNDNPPRFPQK
MYQFSIQESAPIGTAVGRVKAEDSDVGENTDMTYHLKDESSSGGDVFKVTTDSDTQEAIIVVQKRLDFES
QPVHTVILEALNKFVDPRFADLGTFRDQAIVRVAVTDVDEPPEFRPPSGLLEVQEDAQVGSLVGVVTARD
PDAANRPVRYAIDRESDLDQIFDIDADTGAIVTGKGLDRETAGWHNITVLAMEADNHAQLSRASLRIRIL
DVNDNPPELATPYEAAVCEDAKPGQLIQTISVVDRDEPQGGHRFYFRLVPEAPSNPHFSLLDIQDNTAAV
HTQHVGFNRQEQDVFFLPILVVDSGPPTLSSTGTLTIRICGCDSSGTIQSCNTTAFVMAASLSPGALIAL
LVCVLILVVLVLLILTLRRHHKSHLSSDEDEDMRDNVIKYNDEGGGEQDTEAYDMSALRSLYDFGELKGG
DGGGSAGGGAGGGSGGGAGSPPQAHLPSERHSLPQGPPSPEPDFSVFRDFISRKVALADGDLSVPPYDAF
QTYAFEGADSPAASLSSLHSGSSGSEQDFAYLSSWGPRFRPLAALYAGHRGDDEAQAS

TRTRPLE - GFP Tag - V

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. 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_021248.3

RefSeq Size: 3675 bp

RefSeq ORF: 2487 bp

Locus ID: 64405

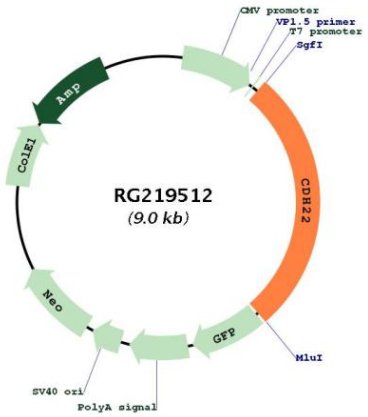
UniProt ID: Q9UJ99

Cytogenetics: 20q13.12

Protein Families: Transmembrane

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 RG219512