

Product datasheet for **RC220651**

Clarin 2 (CLR2) (NM_001079827) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Clarin 2 (CLR2) (NM_001079827) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Clarin 2
Synonyms: DFN117
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC220651 representing NM_001079827
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGGATGGTTCAAAAAGGCGTGGTATGGGCTGGCGTCTTTACTCAGCTTCTCCTCCTTCATCCTGA
TCATCGTTGCCCTGGTAGTGCCCACTGGCTGAGTGGGAAATCCTTTGTCAGACTGGAGTGGATCTGGT
CAACGCCACAGACAGAGAGCTGGTCAAGTTCATTGGGGACATTTACTACGGGCTCTCCGAGGGTGAAG
GTGCGGCAGTGTGGCTTGGGGCCGCAATCCCAATTCAGATCTCCACACCTGGTGAAGGAGCTCA
ACGCAGGCCTTCATGTGATGATTCTGCTGCTCCTTCCCTGGCCTTGGCCCTGGCTCTGGTCAGCATGGG
CTTTGCCATTCTAACATGATCCAGGTCCCGTACCGGGCAGTCAGCGGTCTGGGGGCATCTGCCTATGG
AATGTCCTGGCAGGCGGCGTCTGGCGTTAGCCATCGCCAGCTTCGTGGCTGCGGTGAAATTTACAGACC
TGACGGAACGAATCGCCAACTTTAGGAGAAGCTCTCCAGTTTGGTGGTGAAGAACAGTATGAAGA
GTCGTTTTGGATCTGCGTGGCCAGCGCTTCGGCCATGCTGCAAACCTGGTGGTGGCGATCATGCA
ATCCCTCCCTGAGATTAAGACCAAAATCGAAGAGGCCACGGTCACAGCTGAGGATATCTTGAT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTAA



[View online »](#)

Protein Sequence: >RC220651 representing NM_001079827
 Red=Cloning site Green=Tags(s)

MPGWFKAWYGLASLLSFSSFILIIIVALVPHWLSGKILCQTGVDLVNATDRELVKFIGDIYYGLFRGCK
 VRQCGLGGRQSQFTIFPHLVKELNAGLHVMILLLLFLALALALVSMGFALNMIQVPYRAVSGPGGICLW
 NVLAGGVVALAIASFVAAVKFHDLTERIANFQEKLFQFVVVEEQYEEFSWICVASASAHANLVVAISQ
 IPLPEIKTKIEEATVTAEDILY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8005_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001079827

ORF Size: 696 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.

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

RefSeq: [NM_001079827.1](#), [NP_001073296.1](#)

RefSeq Size: 823 bp

RefSeq ORF: 699 bp

Locus ID: 645104

UniProt ID: [A0PK11](#)

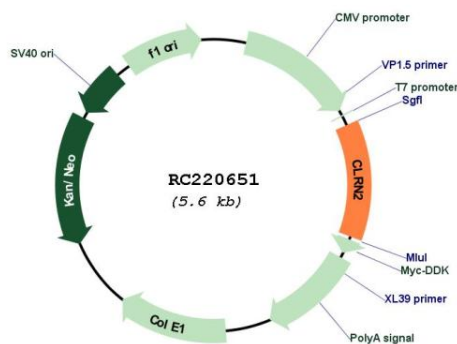
Cytogenetics: 4p15.32

Protein Families: Transmembrane

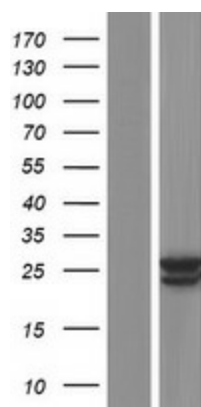
MW: 25.3 kDa

Gene Summary: This gene belongs to the clarin family of genes. The clarins appear to belong to a large superfamily of small integral membrane glycoproteins with four transmembrane domains. The exact function of this gene is unknown. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RC220651



Western blot validation of overexpression lysate (Cat# [LY421552]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220651 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).