

Product datasheet for **RC228172**

CD320 (NM_001165895) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD320 (NM_001165895) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CD320
Synonyms: 8D6; 8D6A; TCBLR; TCN2R
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC228172 representing NM_001165895
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGGCGGTTGGATGGCGCAGGTTGGAGCGTGGCGAACAGGGGCTCTGGGCTGGCGCTGCTGCTGC
TGCTCGGCCTCGGACTAGGCCTGGAGGCCGCGGAGCCCGCTTCCACCCCGACCTCTGCCAGGCCGC
AGGGATTGAGCCATGTACCCAGAAAGGGCAATGCCACCGCCCTGGCCTCCCCTGCCCTGCACCGGC
GTCAGTGACTGCTCTGGGGAACTGACAAGAACTGCGCAACTGCAGCCGCTGGCCTGCCTAGCAGGCC
AGCTCCGTTGCAGCTGAGCGATGACTGCATTCCACTCACGTGGCGCTGCGACGGCCACCCAGACTGTCC
CGACTCCAGCGACGAGCTCGGCTGTGGAACCAATGAGATCCTCCCGAAGGGGATGCCACAACCATGGGG
CCCCCTGTGACCCCTGGAGAGTGTACCTCTCTCAGGAATGCCACAACCATGGGGCCCCCTGTGACCCCTG
AGAGTGTCCCCTCTGTCGGGAATGCCACATCCTCCTGCGGAGACCAGTCTGGAAGCCCAACTGCCTA
TGGGGTTATTGCAGCTGCTGCGGTGCTCAGTGCAAGCCTGGTCACCGCCACCCCTCCTCTTTGTCTGG
CTCCGAGCCAGGAGCGCCTCCGCCACTGGGGTTACTGGTGCCATGAAGGAGTCCCTGCTGCTGTGAG
AACAGAAGACCTCGCTGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC228172 representing NM_001165895
Red=Cloning site Green=Tags(s)

MSGGWMAQVGAWRTGALGLALLLLGLGLGLEAAASPLSTPTSAQAAGIEPCTQKGQCPPPPGLPCPCTG
 VSDCSGGTDKKLRNCSRCLAAGELRCTLSDDCIPLTWRCDGHPDCPDSSDELGCGTNEILPEGDATTMG
 PPVTLESVTSLRNATTMGPPVTLESVPSVGNATSSSAGDQSGSPTAYGVIAAAAVLSASLVATLLLLSW
 LRAQERLRPLGLLVAMKESLLLSEQKTSLP

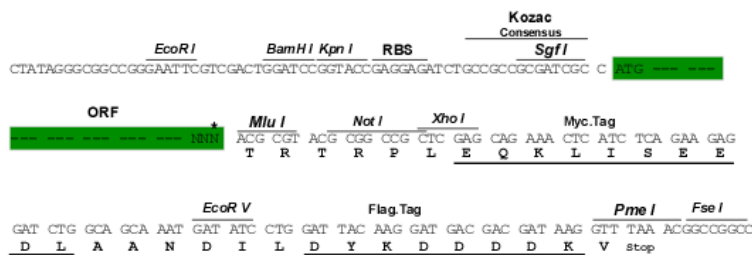
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001165895

ORF Size: 720 bp

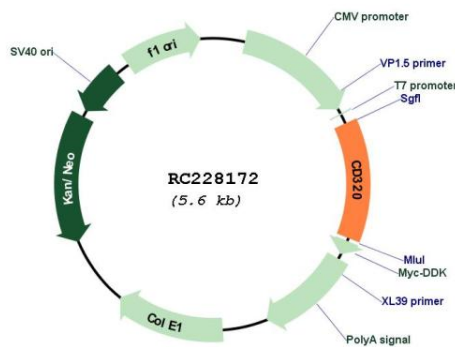
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001165895.2](#)
- RefSeq ORF:** 723 bp
- Locus ID:** 51293
- UniProt ID:** [Q9NPF0](#)
- Cytogenetics:** 19p13.2
- Protein Families:** Transmembrane
- MW:** 24.2 kDa
- Gene Summary:** This gene encodes the transcobalamin receptor that is expressed at the cell surface. It mediates the cellular uptake of transcobalamin bound cobalamin (vitamin B12), and is involved in B-cell proliferation and immunoglobulin secretion. Mutations in this gene are associated with methylmalonic aciduria. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2011]

Product images:



Circular map for RC228172