

## Product datasheet for **RG228172**

### CD320 (NM\_001165895) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD320 (NM_001165895) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD320
Synonyms:	8D6; 8D6A; TCBLR; TCN2R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228172 representing NM_001165895 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCGGCGGTTGGATGGCGCAGGTTGGAGCGTGGCGAACAGGGGCTCTGGGCTGGCGCTGCTGCTGC  
TGCTCGGCCTCGGACTAGGCCTGGAGGCCGCGGAGCCCGCTTCCACCCGACCTCTGCCAGGCCGC  
AGGGATTAGCCATGTACCCAGAAAGGGCAATGCCACC GCCCCCTGGCTCCCCTGCCCTGCACCGGC  
GTCAGTGACTGCTCTGGGGAACTGACAAGAACTGCGCAACTGCAGCCGCTGGCTGCCTAGCAGGCC  
AGCTCCGTTGCACGCTGAGCGATGACTGCATTCCACTCACGTGGCGCTGCGACGCCACCCAGACTGTCC  
CGACTCCAGCGACGAGCTCGGCTGTGGAACCAATGAGATCCTCCCGAAGGGGATGCCACAACCATGGGG  
CCCCCTGTGACCCCTGGAGAGTGTACCTCTCTCAGGAATGCCACAACCATGGGGCCCCCTGTGACCCCTG  
AGAGTGTCCCCTCTGTCGGGAATGCCACATCCTCCTGCGGAGACCAGTCTGGAAGCCCAACTGCCTA  
TGGGGTTATTGCAGCTGCTGCGGTGCTCAGTGCAAGCCTGGTCACCGCCACCCCTCCTCTTTGTCTGG  
CTCCGAGCCCAGGAGCGCCTCCGCCACTGGGGTTACTGGTGGCCATGAAGGAGTCCCTGCTGCTGTGAG  
AACAGAAGACCTCGCTGCCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG228172 representing NM\_001165895  
Red=Cloning site Green=Tags(s)

MSGGWMAQVGAWRTGALGLALLLLGLGLGLEAAASPLSTPTSAQAAGIEPCTQKGQCPPPPGLPCPCTG  
VSDCSGGTDKCLRNCRLACLAGELRCTLSDDCIPLTWRCDGHPDCPDSSDELGCGTNEILPEGDATTMG  
PPVTLESVTSLRNATTMGPPVTLESVPSVGNATSSSAGDQSGSPTAYGVIAAAAVLSASLVTATLLLLSW  
LRAQERLRPLGLLVAMKESLLLSEQKTSLP

TRTRPLE - GFP Tag - V

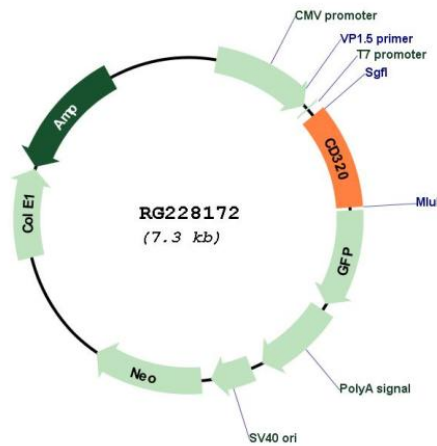
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001165895

**ORF Size:** 720 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001165895.2</a>
<b>RefSeq Size:</b>	1157 bp
<b>RefSeq ORF:</b>	723 bp
<b>Locus ID:</b>	51293
<b>UniProt ID:</b>	<a href="#">Q9NPF0</a>
<b>Cytogenetics:</b>	19p13.2
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>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]</p>