

Product datasheet for **RR207203**

Cd320 (NM_001014201) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cd320 (NM_001014201) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cd320
Synonyms: RGD1305860
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR207203 representing NM_001014201
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGCGGTGCGGAGCTGGGCGGGCAGCCGCCCTGGGCCTGGTGTGCTGCGGCTGCTCTTGGGTCTTAGAA
CAGGTCCCAGGGCCGCTCCGGCTCCAACCTCGGCTCCGGCCCATACCCTAGTCCAAGTCTCGGGCCCTAG
AGCTGGCTCCTGCCAACAGACACCTTCAAGTGTCTTACCAGTGGCTACTGTGTGCCCTCTCCTGGCGC
TGCATGGGGACCGGATTGCTCTGATGGCAGTGACGAGGAAGAGTGTAGAATTGAGCCATGTGCTCAGA
ATAGGCAGTGCCAGCCACAGCCTGCCCTTCTTGTCTCTGTGACAACATCAGTGGTTGCTCCGCTGGCTC
AGACAAGAACCTCAACTGTAGCCGCTCACCTGTGAGGAGGGCGAGCTGCGTTGCATACTGGATGATGTC
TGATCCCACACACGTGGCGCTGTGATGGCCACCCAGACTGTCCTGACTCCAGTGATGAGCTCAGCTGTG
ACACCGACACAGAACTGACAAGATATCCAGGAGGAGAATGCCACAACCTCAATGTCTTCTATGATTGT
GGAGAAAGAGACCTTTTCAGAAATGTCACAGTTGCTTCTGCTGGGCACCCATCCCAGAAACCCAAATGCC
TATGGGGTTATCGCAGCTGCTGGGGTGTGAGTGCCATCCTGGTTTCAGCTACCATTCTCATATTGCTAC
GACTCAGAGGTCAGGGTTATCTACCCCAACAGGGCTGTTGGTGGCTGTGAAGGAGTCGCTGCTGCTGTC
AGAAAGGAAAACCTCTTTGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR207203 representing NM_001014201
 Red=Cloning site Green=Tags(s)

MARCGAGRAAALGLVLRLLGLRTGPEAAPPTSAPAHTLVQVSGPRAGSCTPTDFKCLTSGYCVPLSWR
 CDGDRDCSDGSDEEECRIEPCAQNRQCQPALPCSDNISGCSAGSDKNLNCRSRPCQEGELRCILDDV
 CIPHTWRCDGHPDCPDSSDELSCDTEITDKIFQEENATSMSSMIVEKETSFRNVTVASAGHPSRPNPA
 YGVIAAAGVLSAILVSATILILLRLRGQYLPTGLLVAVKESLLLSEKTSLLI

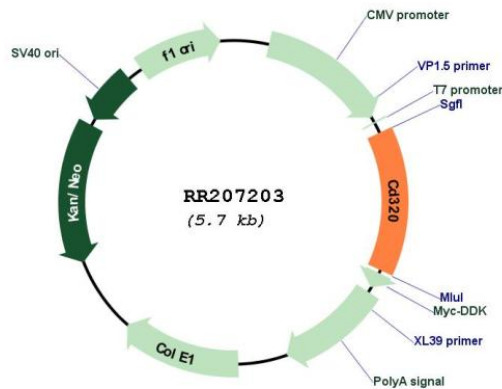
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001014201
ORF Size: 792 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:	<ol style="list-style-type: none">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_001014201.1 , NP_001014223.1
RefSeq Size:	1192 bp
RefSeq ORF:	795 bp
Locus ID:	362851
UniProt ID:	Q5HZW5
Cytogenetics:	7q13
MW:	27.9 kDa
Gene Summary:	Receptor for transcobalamin saturated with cobalamin (TCbl). Plays an important role in cobalamin uptake. Plasma membrane protein that is expressed on follicular dendritic cells (FDC) and mediates interaction with germinal center B cells. Functions as costimulator to promote B cell responses to antigenic stimuli; promotes B cell differentiation and proliferation. Germinal center-B (GC-B) cells differentiate into memory B-cells and plasma cells (PC) through interaction with T-cells and follicular dendritic cells (FDC). CD320 augments the proliferation of PC precursors generated by IL-10.[UniProtKB/Swiss-Prot Function]