

Product datasheet for **RC204740**

CD66b (CEACAM8) (NM_001816) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD66b (CEACAM8) (NM_001816) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD66b
Synonyms:	CD66b; CD67; CGM6; NCA-95
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204740 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCCCATCTCAGCCCTTCTGCAGATGGCGCATCCCTGGCAGGGGCTCCTGCTCACAGCCTCAC
TTTTACCTTCTGGAACCCGCCACCCTGCTCAGCTCACTATTGAAGCTGTGCCATCCAATGCTGCAGA
GGGAAGGAGGTTCTTCTACTTGTCCACAATCTGCCCCAGGACCCTCGTGGCTACAACCTGGTACAAAGG
GAAACAGTGGATGCCAACCGTGAATTATAGGATATGTAATATCAAATCAACAGATTACCCAGGGCCTG
CATACAGCAATCGAGAGACAATATACCCAATGCATCCCTGCTGATGCGGAACGTCACCAGAAATGACAC
AGGATCCTACACCCTACAAGTCATAAAGCTAAATCTTATGAGTGAAGAAGTAACTGGCCAGTTCAGCGTA
CATCCGGAGACTCCCAAGCCCTCCATCTCCAGCAACAACCTCAACCCCGTGGAGGACAAGGATGCTGTGG
CCTTACCTGTGAACCTGAGACTCAGAACAACCTACCTGTGGTGGGTAATGGTCAAGTCTCCCGGT
CAGTCCCAGGCTGCAGCTGTCCAATGGCAACAGGACCCTCACTCTACTCAGTGTCAAGGAATGACGTA
GGACCCTATGAATGTGAAATACAGAACCAGGAGTGCAAACCTCAGTGACCCAGTACCCTGAATGTCC
TCTATGGCCAGATGCCCCACCATTTCCCTTCAGACACCTATTACCATGCAGGGGTAATCTCAACCT
CTCCTGCCATGCGGCCTTAATCCACCTCACAGTATTCTTGGTCTGCAATGGCACATTCCAGCAATAC
ACACAAAAGCTCTTTATCCCCAACATCACTACAAAGAACAGCGGATCCTATGCCTGCCACCACTAACT
CAGCCACTGGCCGCAACAGGACCACAGTCAAGGATGATCACAGTCTCTGATGCTTTAGTACAAGGAAGTTC
TCCTGGCCTCTCAGCTAGAGCCACTGTGAGCATCATGATTGGAGTACTGGCCAGGGTGGCTCTGATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204740 protein sequence
Red=Cloning site Green=Tags(s)

MGPISAPSCRWRIPWQGLLLTASLFTFWNPPTTAQLTIEAVPSNAAEGKEVLLL VHNLPQDPRGYNWYKG
 ETVDANRRIIGYVISNQQITPGPAYSNRETIYPNASLLMRNVTRNDTGSYTLQVIKLNLMSEEVGGQFSV
 HPETPKPSISSNNSNPVEDKDAVAFTCEPETQNTTYLWWVNGQSLPVSPRLQLSNGNRTL TLLSVTRNDV
 GPYECEIQNPASANFSDPVTLNVL YGPDAPTISP SDTYHAGVNLNL SCHAASNPPSQYSWSVNGTFQQY
 TQKLFIPNITTKNSGSYACHTTNSATGRNRTTVRMITVSDALVQGSSPGLSARATVSIMIGVLARVALI

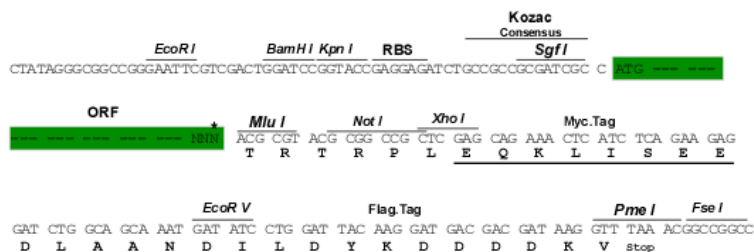
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6068_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001816

ORF Size: 1047 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_001816.4](#)

RefSeq Size: 2333 bp

RefSeq ORF: 1050 bp

Locus ID: 1088

UniProt ID: [P31997](#)

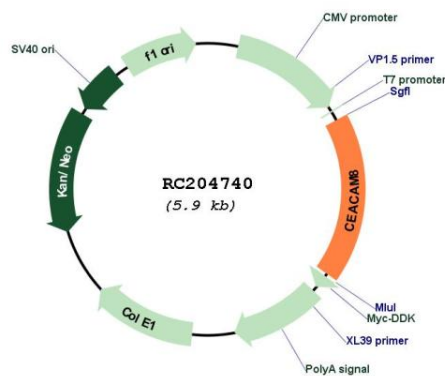
Cytogenetics: 19q13.2

Domains: ig, IGc2, IG

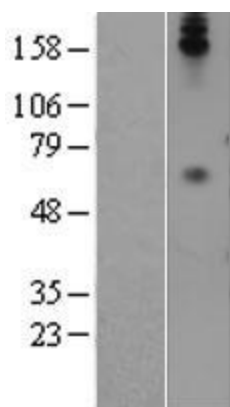
MW: 38.2 kDa

Gene Summary: Cell surface glycoprotein that plays a role in cell adhesion in a calcium-independent manner (PubMed:8776764, PubMed:2022629, PubMed:11590190). Mediates heterophilic cell adhesion with other carcinoembryonic antigen-related cell adhesion molecules, such as CEACAM6 (PubMed:8776764, PubMed:2022629, PubMed:11590190). Heterophilic interaction with CEACAM8 occurs in activated neutrophils (PubMed:8776764).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC204740



Western blot validation of overexpression lysate (Cat# [LY419724]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204740 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).