

Product datasheet for **RG204740**

CD66b (CEACAM8) (NM_001816) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CD66b
Synonyms:	CD66b; CD67; CGM6; NCA-95
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG204740 representing NM_001816
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGCCCATCTCAGCCCTTCCTGCAGATGGCGCATCCCCTGGCAGGGGCTCCTGCTCACAGCCTCAC
TTTTACCTTCTGGAACCCGCCACCACTGCTCAGCTCACTATTGAAGCTGTGCCATCCAATGCTGCAGA
GGGGAAGGAGGTTCTTCTACTTGTCACAATCTGCCCCAGGACCTCGTGGCTACAAGTGTACAAAGGG
GAAACAGTGGATGCCAACCGTCGAATTATAGGATATGTAATATCAAATCAACAGATTACCCAGGGCCTG
CATACAGCAATCGAGAGACAATATACCCCAATGCATCCCTGCTGATGCGGAACGTCACCAGAAATGACAC
AGGATCCTACACCTACAAGTCATAAAGCTAAATCTTATGAGTGAAGAAGTAAGTGGCCAGTTCAGCGTA
CATCCGGAGACTCCAAGCCCTCCATCTCCAGCAACAACCTCAACCCCGTGGAGGACAAGGATGCTGTGG
CCTTCACCTGTGAACCTGAGACTCAGAACAACCTACCTGTGGTGGTAAATGGTCAGAGTCTCCCGGT
CAGTCCCAGGCTGCAGCTGTCCAATGGCAACAGGACCTCACTCTACTCAGTGTCAAGGAATGACGTA
GGACCTATGAATGTGAAATACAGAACCCAGCGAGTGCAAACTTCAGTGACCCAGTCAACCTGAATGTCC
TCTATGGCCAGATGCCCCACCATTTCCCTTCAGACACCTATTACCATGCAGGGGTAAATCTCAACCT
CTCCTGCCATGGGCCTCTAATCCACCCTCACAGTATTCTTGGTCTGTCATGGCACATTCCAGCAATAC
ACACAAAAGCTCTTTATCCCAACATCACTACAAAGAAGCAGCGGATCCTATGCCTGCCACACCACTAACT
CAGCCACTGGCCGCAACAGGACCACAGTCAGGATGATCAGTCTCTGATGCTTTAGTACAAGGAAGTTC
TCCTGGCCTCTCAGCTAGAGCCACTGTCAGCATCATGATTGGAGTACTGGCCAGGGTGGCTCTGATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG204740 representing NM_001816
Red=Cloning site Green=Tags(s)

MGPISAPSCRWRIPWQGLLLTASLFTFWNPPTTAQLTIEAVPSNAAEGKEVLLLVHNLQDPRGYNWYKG
ETVDANRRIIGYVISNQIITPGPAYSNRETIYPNASLLMRNVTRNDTGSYTLQVIKLNLMSEEVGTGQFSV
HPETPKPSISSNNSNPVEDKDAVFTCEPETQNTTYLWWVNGQSLPVSRLQLSNGNRTLTL SVTRNDV
GPYECEIQNPASANFSDPVTNLVLYGPDAPTISPSDTYHAGVNLNLSCHAASNPPSQYSWSVNGTFQQY
TQKLFIPNITTKNSGSYACHTTNSATGRNRTTVRMITVSDALVQGSSPGLSARATVSIMIGVLARVALI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001816

ORF Size: 1047 bp

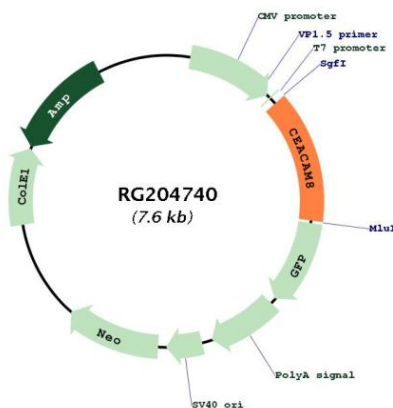
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001816.4
RefSeq Size:	2297 bp
RefSeq ORF:	1050 bp
Locus ID:	1088
UniProt ID:	P31997
Cytogenetics:	19q13.2
Domains:	ig, Igc2, IG
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 RG204740