

## Product datasheet for **RC230069**

### **CEACAM1 (NM\_001184813) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CEACAM1 (NM_001184813) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CEACAM1
Synonyms:	BGP; BGP1; BGPI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC230069 representing NM\_001184813  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGGCACCTCTCAGCCCCACTTCACAGAGTGCCTGTACCTGGCAGGGGCTTCTGCTCACAGCCTCAC  
 TTCTAACCTTCTGGAACCGCCACCAGCTGCCAGCTCACTACTGAATCCATGCCATTCAATGTTGCAGA  
 GGGGAAGGAGTTCTTCTCCTTGTCCACAATCTGCCCCAGCAACTTTTTGGCTACAGCTGGTACAAAGGG  
 GAAAGAGTGGATGGCAACCGTCAAATTGTAGGATATGCAATAGGAACTCAACAAGCTACCCAGGGCCCG  
 CAAACAGCGGTGAGAGACAATATACCCAATGCATCCCTGCTGATCCAGAACGTACCCAGAATGACAC  
 AGGATTCTACACCCTACAAGTCATAAAGTCAGATCTTGTGAATGAAGAAGCAACTGGACAGTTCATGTA  
 TACCCGGAGCTGCCAAGCCCTCCATCTCCAGCAACAACCTCAACCTGTGGAGGACAAGGATGCTGTGG  
 CCTTCACCTGTGAACCTGAGACTCAGGACACAACCTACCTGTGGTGGATAAACAATCAGAGCCTCCCGGT  
 CAGTCCCAGGCTGCAGCTGTCCAATGGCAACAGGACCCTCACTCTACTCAGTGTACAAGGAATGACACA  
 GGACCCTATGAGTGTGAAATACAGAACCAGTGAAGTGCAGAACCGCAGTGACCCAGTCACCTTGAATGTCA  
 CCTATGGCCCGGACACCCCAACATTTCCCTTCAGACACCTATTACCGTCCAGGGGCAAACCTCAGCCT  
 CTCTGCTATGCAGCCTTAACCCACCTGCACAGTACTCTGGCTTATCAATGGAACATTCAGCAAAGC  
 ACACAAGAGCTCTTTATCCCTAACATCACTGTGAATAATAGTGGATCCTATACCTGCCACGCCAATAACT  
 CAGTCACTGGCTGCAACAGGACCACAGTCAAGACGATCATAGTCACTGATAATGCTCTACCACAAGAAAA  
 TGGCCTCTACCTGGGGCCATTGCTGGCATTGTGATTGGAGTAGTGGCCCTGGTTGCTCTGATAGCAGTA  
 GCCCTGGCATGTTTTCTGCATTTGCGGAAGACCGCAGGGCAAGCGACCAGCGTGATCTCACAGAGCACA  
 AACCTCAGTCTCAACCACACTCAGGACCCTCAATGACCCACCTAACAAGATGAATGAAGTTACTTA  
 TTCTACCCTGAACCTTGAAGCCAGCAACCCACACAACCAACTCAGCCTCCCCATCCCTAACAGCCACA  
 GAAATAATTTATTAGAAGTAAAAAGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC230069 representing NM\_001184813  
 Red=Cloning site Green=Tags(s)

MGHLSAPLHRVRVPWQGLLLTASLLTFWNPPTTAQLTTESMPFNVAEGKEVLLL VHNLPPQLFGYSWYKG  
 ERVDGNRQIVGYAIGTQQATPGPANSGRETIYPNASLLIQNVTQNDTGFYTLQVIKSDLVNEEATGGFHV  
 YPELKPSSISSNNSNPVEDKDAVAFTCEPETQDTTYLWWINNQLPVSRLQLSNGNRTL TLLSVTRNDT  
 GPYECEIQNPVSANRSDPVTLNVTYGPDTPTISPSDYRPGANLSLSCYAASNPPAQYSWLINGTFQQS  
 TQELFIPNITVNNSGSYTCHANNSVTGCNRTTVKTIIVTDNALPQENGLSPGAIAGIVIGVVALVALIAV  
 ALACFLHFGKTGRASDQRDLTEHKPSVSNHTQDHSNDPPNKMNEVYSTLNFEAQPTQPTSASPSTLAT  
 EIIYSEVKKQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8059\\_c12.zip](https://cdn.origene.com/chromatograms/mk8059_c12.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

**ACCN:** NM\_001184813

**ORF Size:** 1290 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](mailto: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).

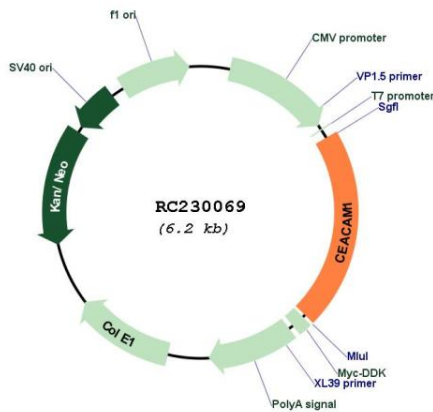
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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\\_001184813.2](#)

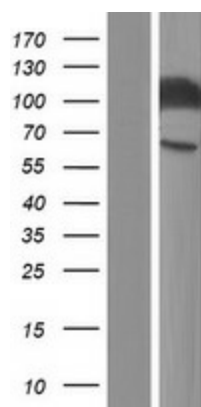
**RefSeq ORF:** 1293 bp  
**Locus ID:** 634  
**UniProt ID:** [P13688](#)  
**Cytogenetics:** 19q13.2  
**Protein Families:** Druggable Genome, Transmembrane  
**MW:** 47.4 kDa

**Gene Summary:** This gene encodes a member of the carcinoembryonic antigen (CEA) gene family, which belongs to the immunoglobulin superfamily. Two subgroups of the CEA family, the CEA cell adhesion molecules and the pregnancy-specific glycoproteins, are located within a 1.2 Mb cluster on the long arm of chromosome 19. Eleven pseudogenes of the CEA cell adhesion molecule subgroup are also found in the cluster. The encoded protein was originally described in bile ducts of liver as biliary glycoprotein. Subsequently, it was found to be a cell-cell adhesion molecule detected on leukocytes, epithelia, and endothelia. The encoded protein mediates cell adhesion via homophilic as well as heterophilic binding to other proteins of the subgroup. Multiple cellular activities have been attributed to the encoded protein, including roles in the differentiation and arrangement of tissue three-dimensional structure, angiogenesis, apoptosis, tumor suppression, metastasis, and the modulation of innate and adaptive immune responses. Multiple transcript variants encoding different isoforms have been reported, but the full-length nature of all variants has not been defined. [provided by RefSeq, May 2010]

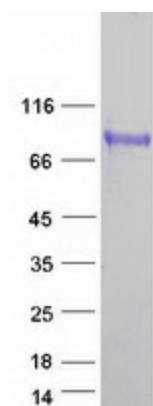
### Product images:



Circular map for RC230069



Western blot validation of overexpression lysate (Cat# [LY433069]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230069 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CEACAM1 protein (Cat# [TP330069]). The protein was produced from HEK293T cells transfected with CEACAM1 cDNA clone (Cat# RC230069) using MegaTran 2.0 (Cat# [TT210002]).