

Product datasheet for **RG230069**

CEACAM1 (NM_001184813) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEACAM1 (NM_001184813) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CEACAM1
Synonyms:	BGP; BGP1; BGPI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG230069 representing NM_001184813 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCACCTCTCAGCCCCACTTCACAGAGTGCCTGTACCCTGGCAGGGGCTTCTGCTCACAGCCTCAC
TTCTAACCTTCTGGAACCCGCCACCCTGCCAGCTCACTACTGAATCCATGCCATTCAATGTTGCAGA
GGGAAGGAGGTTCTTCTCCTTGTCCACAATCTGCCCCAGCAACTTTTTGGCTACAGCTGGTACAAAGG
GAAAGAGTGGATGGCAACCGTCAAATTGTAGGATATGCAATAGGAACTCAACAAGCTACCCAGGGCCCC
CAAACAGCGGTCGAGAGACAATATACCCAATGCATCCCTGCTGATCCAGAACGTCACCCAGAATGACAC
AGGATTCTACACCTACAAGTCATAAAGTCAGATCTTGTGAATGAAGAAGCAACTGGACAGTTCCATGTA
TACCCGGAGCTGCCAAGCCCTCCATCTCCAGCAACAACCTCCAACCTGTGGAGGACAAGGATGCTGTGG
CCTTACCTGTGAACCTGAGACTCAGGACACAACCTACCTGTGGTGGATAAAACAATCAGAGCCTCCCGGT
CAGTCCCAGGCTGCAGCTGTCCAATGGCAACAGGACCCTCACTCTACTCAGTGTCAAGGAATGACACA
GGACCCTATGAGTGTGAAATACAGAACCAGTGAAGTGGCAACCGCAGTGACCCAGTCACCTTGAATGTCA
CCTATGGCCGGACACCCCAACCTTCCCTTCCAGACACCTATTACCGTCCAGGGGCAACCTCAGCCT
CTCCTGCTATGCAGCCTTAACCCACCTGCACAGTACTCCTGGCTTATCAATGGAACATTCCAGCAAAGC
ACACAAGAGCTCTTTATCCCTAACATCACTGTGAATAATAGTGGATCCTATACCTGCCAGCCAATAACT
CAGTCACTGGCTGCAACAGGACCACAGTCAAGACGATCATAGTCACTGATAATGCTCTACCACAAGAAAA
TGGCCTCTCACCTGGGGCATTGCTGGCATTGTGATTGGAGTAGTGGCCCTGGTTGCTCTGATAGCAGTA
GCCCTGGCATGTTTTCTGCATTTTCGGAAGACCGGCAGGGCAAGCGACCAGCGTGATCTCACAGAGCACA
AACCTCAGTCTCAACCACTCAGGACCCTCAATGACCCACCTAACAAGATGAATGAAGTTACTTA
TTCTACCTGAACCTTGAAGCCAGCAACCCACACAACCAACTTCAGCCTCCCCATCCCTAACAGCCACA
GAAATAATTTATTCAGAAGTAAAAAAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG230069 representing NM_001184813
Red=Cloning site Green=Tags(s)

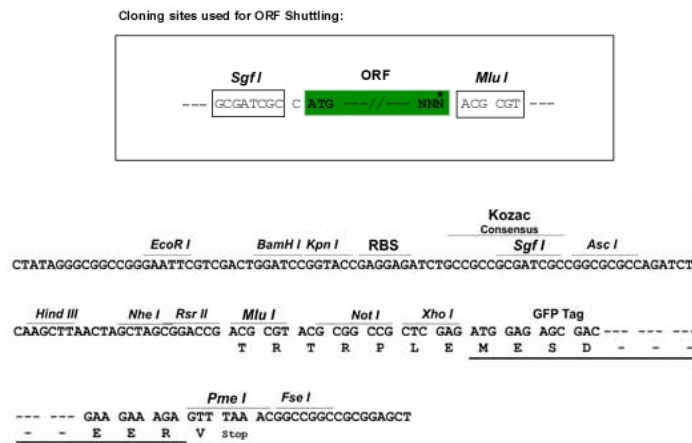
MGHLSAPLHRVRVPWQGLLLTASLLTFWNPPTTAQLTTESMPFNVAEGKEVLLL VHNLPQQLFGYSWYKG
 ERVDGNRQIVGYAIGTQQATPGPANSGRETIYPNASLLIQNVTQNDTGFYTLQVIKSDLVNEEATGQFHV
 YPELKPSSISSNNSNPVEDKDAVAFTCEPETQDTTYLWWINNQSLPVSPRLQLSNGNRTL TLLSVTRNDT
 GPYECEIQNPVSNRSDPVTLNVTYGPDTPITISPSDYYRPGANLSLSCYAASNPPAQYSLWINGTFQQS
 TQELFIPNITVNNSGSYTCHANNSVTGCNRTTVKTIIVTDNALPQENGLSPGAIAGIVIGVVALVALIAV
 ALACFLHFGKTGRASDQRDLTEHKPSVSNHTQDHSNDPPNKMNEVTYSTLNFEAQPTQPTSASPSTLAT
 EIIYSEVKKQ

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2412_f02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001184813

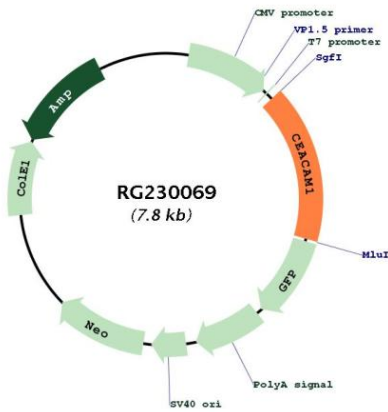
ORF Size: 1290 bp

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 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:	<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_001184813.2
RefSeq Size:	3240 bp
RefSeq ORF:	1293 bp
Locus ID:	634
UniProt ID:	P13688
Cytogenetics:	19q13.2
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG230069