

Product datasheet for **RG221096**

CEACAM1 (NM_001712) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEACAM1 (NM_001712) 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)



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ORF Nucleotide Sequence:

>RG221096 representing NM_001712
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCACCTCTCAGCCCCACTTCACAGAGTGCCTGTACCTGGCAGGGGCTTCTGCTCACAGCCTCAC
 TTCTAACCTTCTGGAACCGCCACCAGTCCAGCTCACTACTGAATCCATGCCATTCAATGTTGCAGA
 GGGGAAGGAGTTCTTCTCCTTGTCCACAATCTGCCCCAGCAACTTTTTGGCTACAGCTGGTACAAAGGG
 GAAAGAGTGGATGGCAACCGTCAAATTGTAGGATATGCAATAGGAACTCAACAAGCTACCCAGGGCCCG
 CAAACAGCGGTGAGAGACAATATACCCCAATGCATCCCTGTGATCCAGAACGTACCCAGAATGACAC
 AGGATTCTACACCCTACAAGTCATAAAGTCAGATCTTGTGAATGAAGAAGCAACTGGACAGTTCATGTA
 TACCCGGAGCTGCCAAGCCCTCCATCTCCAGCAACAACCTCAACCCTGTGGAGGACAAGGATGCTGTGG
 CCTTCACTGTGAACCTGAGACTCAGGACACAACCTACCTGTGGTGGATAAACAATCAGAGCCTCCCGGT
 CAGTCCCAGGCTGCAGCTGTCCAATGGCAACAGGACCCTCACTCTACTCAGTGTACAAGGAATGACACA
 GGACCCTATGAGTGTGAAATACAGAACCAGTGAAGTGCAGAACCGCAGTGACCCAGTCACCTTGAATGTCA
 CCTATGGCCCGGACACCCCAACATTTCCCTTCAGACACCTATTACCGTCCAGGGGCAAACCTCAGCCT
 CTCTGCTATGCAGCCTTAACCCACCTGCACAGTACTCTGGCTTATCAATGGAACATTCAGCAAAGC
 ACACAAGAGCTCTTTATCCCTAACATCACTGTGAATAATAGTGGATCCTATACCTGCCACGCCAATAACT
 CAGTCACTGGCTGCAACAGGACCACAGTCAAGACGATCATAGTCACTGAGCTAAGTCCAGTAGTAGCAA
 GCCCAAAATCAAAGCCAGCAAGACCACAGTCAAGGAGATAAGGACTCTGTGAACCTGACCTGCTCCACA
 AATGACTGGAAATCTCCATCCGTTGGTCTTCAAAAACCAGAGTCTCCCGTCTCGGAGAGGATGAAGC
 TGTCACAGGGCAACACCACCTCAGCATAAACCTGTCAAGAGGGAGGATGCTGGGACGATTGGTGTGA
 GGCTCTTCAACCAATCAGTAAGAACCAAGCGACCCCATCATGCTGAACGTAAACTATAATGCTCTACCA
 CAAGAAAATGGCCTCTCACCTGGGGCCATTGCTGGCATTGTGATTGGAGTAGTGGCCCTGGTTGCTCTGA
 TAGCAGTAGCCCTGGCATGTTTTCTGCATTTCCGGGAAGACCGGCAGGGCAAGCGACCAGCGTGATCTCAC
 AGAGCACAAACCCTCAGTCTCCAACCACACTCAGGACCACTCCAATGACCCACCTAACAAGATGAATGAA
 GTTACTTATTCTACCCTGAACTTTGAAGCCAGCAACCCACACAACCAACTTCAGCCTCCCCATCCCTAA
 CAGCCACAGAAAATAATTTATTCAGAAGTAAAAAAGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG221096 representing NM_001712
 Red=Cloning site Green=Tags(s)

MGHLAPLHRVRVPWQGLLLTASLLTFWNPPTTAQLTTESMPFNVAEGKEVLLL VHNLPQQLFGYSWYKG
 ERVDGNRQIVGYAIGTQATPGPANSGRETIYPNASLLIQNVNTQNDTGFYTLQVIKSDLVNEEATGQFHV
 YPELKPQSISSNNSNPVEDKDAVAFTCEPETQDTTYLWWINNQLPVSRLQLSNGNRTL TLLSVTRNDT
 GPYECEIQNPVSNRSDPVTLNVTYGPDPPTI SPSDTYRPGANLSL SCYAASNPPAQYSWLINGTFQQS
 TQELFIPNITVNNSGSYTCHANN SVTGCNRTTVKTIIVTELSPVVAKPQIKASKTTVTGDKDSVNLTCST
 NDTGISIRWFFKNQSLPSSERMKLSQGNLTLINPVKREDAGTYWCEVFNPISKQSDPIMLVNPNALP
 QENGLSPGAIAGIVIGVVALVALIAVALACFLHFGKTGRASDQRDLTEHKPSVSNHTQDHSNDPPNMNE
 VTYSTLNFEAQQPTQPTSASPSLTATEI IYSEVKKQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001712

ORF Size: 1578 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_001712.5](#)

RefSeq Size: 3497 bp

RefSeq ORF: 1581 bp

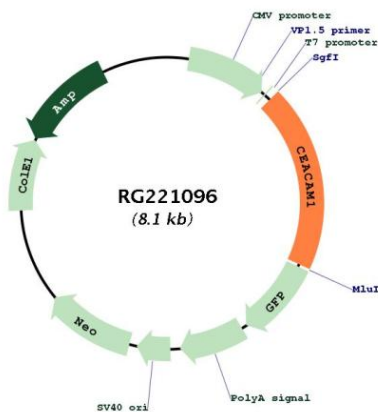
Locus ID: 634

UniProt ID: [P13688](#)

Cytogenetics: 19q13.2

Domains:	ig, IGc2, IG
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 RG221096