

Product datasheet for **RC239352**

CEACAM5 (NM_001291484) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEACAM5 (NM_001291484) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CEACAM5
Synonyms:	CD66e; CEA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RC239352 representing NM_001291484
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTCTCCCTCGGCCCTCCCACAGATGGTGCATCCCTGGCAGAGGCTCCTGCTCACAGCCTCAC
TTCTAACCTTCTGGAACCGCCACCCTGCAAGCTCACTATTGAATCCACGCCGTTCAATGTCGCAGA
GGGAAGGAGGTCTTCTACTTGTCCACAATCTGCCCCAGCATCTTTTGGCTACAGCTGGTACAAAGGT
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CTGATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC239352 representing NM_001291484
 Red=Cloning site Green=Tags(s)

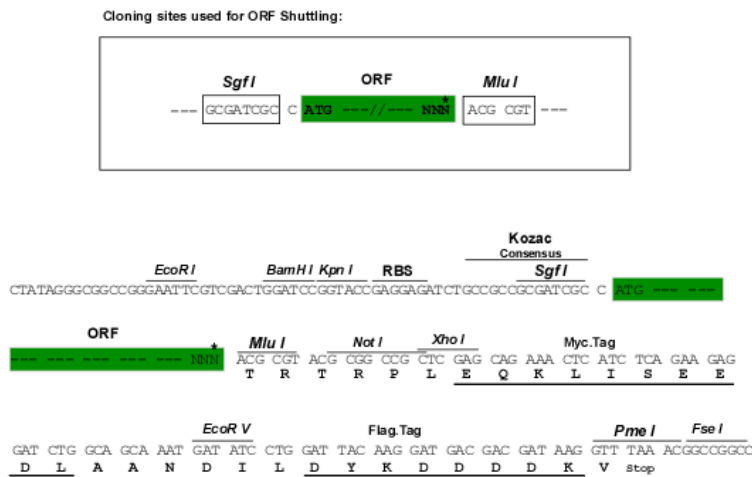
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 ASYK CETQNPVSARRSDSVILNVLYGPDAPTISPLNTSYRSGENLNL SCHAASNPPAQYSWVNGTFQQS
 TQELFIPNITVNNSGSYTCAHNSDTGLNRTT VTTITVYAEPPKPFITSNNSNPVEDEVALTCEPEIQ
 NTTYLWWVNNQSLPVSRLQLSNDNRTL TLLSVTRNDVGPYECGIQNELSVDHSDPVILNVLYGPDPTI
 SPSYTYRPGVNL SLSCHAASNPPAQYSWLIDGNIQQHTQELFISNITEKNSGLYTCQANNSASGHSRTT
 VKTITVSAELPKPSSISSNNSKPVEDKDAVAFTCEPEAQNTTYLWWVNGQSLPVSRLQLSNGNRTLTLFN
 VTRNDARAYVCGIQNSVSANRSDPVTL DVLYGPDPTIISPDPSSYLSGANLNL SCHAASNPPSQYSWRIN
 GIPQQHTQVLFIAKITPNNNGTYACFVSNLATGRNNSIVKSITVSASGTSPLSAGATVGMIGVLVGVA
 LI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

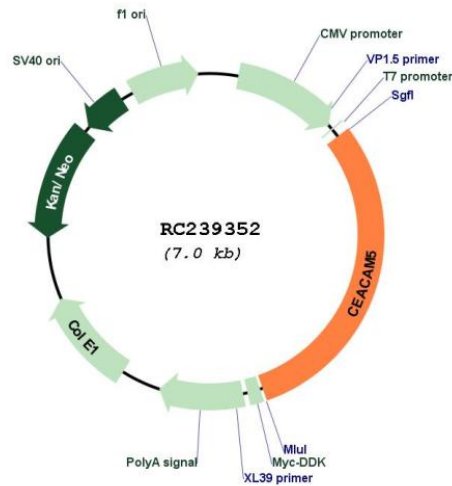
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001291484

ORF Size: 2106 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_001291484.3](#)

RefSeq Size: 3516 bp

RefSeq ORF: 2109 bp

Locus ID: 1048
UniProt ID: [P06731](#)
Cytogenetics: 19q13.2
MW: 77.2 kDa

Gene Summary: This gene encodes a cell surface glycoprotein that represents the founding member of the carcinoembryonic antigen (CEA) family of proteins. The encoded protein is used as a clinical biomarker for gastrointestinal cancers and may promote tumor development through its role as a cell adhesion molecule. Additionally, the encoded protein may regulate differentiation, apoptosis, and cell polarity. This gene is present in a CEA family gene cluster on chromosome 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]