

Product datasheet for **RG206434**

CEACAM5 (NM_004363) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEACAM5 (NM_004363) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CEACAM5
Synonyms:	CD66e; CEA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG206434 representing NM_004363
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTCTCCCTCGGCCCTCCCACAGATGGTGCATCCCTGGCAGAGGCTCCTGCTCACAGCCTCAC
 TTCTAACCTTCTGGAACCGCCACCACCTGCCAAGCTCACTATTGAATCCACGCCGTTCAATGTCGCAGA
 GGGGAAGGAGGTGCTTCTACTTGTCCACAATCTGCCCCAGCATCTTTTGGCTACAGCTGGTACAAAGGT
 GAAAGAGTGGATGGCAACCGTCAAATTATAGGATATGTAATAGGAACTCAACAAGCTACCCAGGGCCCG
 CATACAGTGGTCGAGAGATAATATACCCAATGCATCCCTGCTGATCCAGAACATCATCCAGAATGACAC
 AGGATTCTACACCCTACACGTCATAAAGTCAGATCTTGTGAATGAAGAAGCAACTGGCCAGTTCGGGTA
 TACCCGGAGCTGCCAAGCCCTCCATCTCCAGCAACAACCTCAAACCCGTGGAGGACAAGGATGCTGTGG
 CCTTCACCTGTGAACCTGAGACTCAGGACGCAACCTACCTGTGGTGGTAAACAATCAGAGCCTCCCGT
 CAGTCCCAGGCTGCAGCTGTCCAATGGCAACAGGACCCTCACTCTATTCAATGTACAAGAAATGACACA
 GCAAGCTACAAATGTGAAACCCAGAACCCAGTGAGTGCCAGGCGCAGTGATTCACTCATCTGAATGTCC
 TCTATGGCCCGGATGCCCCACCATTTCCTCTAAACACATCTTACAGATCAGGGGAAAATCTGAACCT
 CTCTGCCACGCAGCCTTAACCCACCTGCACAGTACTCTTGGTTGTCAATGGGACTTTCAGCAATCC
 ACCCAAGAGCTCTTTATCCCAACATCACTGTGAATAATAGTGGATCCTATACGTGCCAAGCCATAACT
 CAGACTGGCCTCAATAGGACCACAGTCACGACGATCACAGTCTATGCAGAGCCACCAAAACCTTCAT
 CACCAGCAACAACCTCAACCCCGTGGAGGATGAGGATGCTGTAGCCTAACCTGTGAACCTGAGATTGAG
 AACACAACCTACCTGTGGTGGTAAATAATCAGAGCCTCCCGTCACTCCAGGCTGCAGCTGTCCAATG
 ACAACAGGACCCTCACTACTCAGTGTACAAGGAATGATGTAGGACCCTATGAGTGTGGATCCAGAA
 CGAATTAAGTGTGACCACAGCGACCCAGTCATCCTGAATGTCTCTATGGCCAGACGCCACCATT
 TCCCCCTCATACACCTATTACCGTCCAGGGGTGAACCTCAGCCTCTCTGCCATGCAGCCTTAACCCAC
 CTGCACAGTATTCTTGGCTGATTGATGGGAACATCCAGCAACACACACAAGAGCTCTTTATCTCCAACAT
 CACTGAGAAGAACAGCGGACTCTATACCTGCCAGGCCAATAACTCAGCCAGTGGCCACAGCAGGACTACA
 GTCAAGACAATCACAGTCTCTGCGGAGCTGCCAAGCCCTCCATCTCCAGCAACAACCTCAAACCCGTGG
 AGGACAAGGATGCTGTGGCCTTACCTGTGAACCTGAGGCTCAGAACACAACCTACCTGTGGTGGTAAA
 TGGTCAGAGCCTCCAGTCAGTCCAGGCTGCAGCTGTCCAATGGCAACAGGACCCTCACTCTATTCAAT
 GTCACAAGAAATGACGCAAGAGCCTATGTATGTGGAATCCAGAACTCAGTGAAGTCAACCCGAGTGACC
 CAGTACCCTGGATGTCCTCTATGGGCCGACACCCCATCATTTCCCCCAGACTCGTCTACCTTTC
 GGGAGCGAACCTCAACCTCTCTGCCACTCGGCCTCTAACCCATCCCCGAGTATTCTTGGCGTATCAAT
 GGGATACCGCAGCAACACACACAAGTTCTTTTATCGCAAAATCACGCCAAATAATAACGGGACCTATG
 CCTGTTTTGTCTCAACTTGGCTACTGGCCGCAATAATCCATAGTCAAGAGCATCACAGTCTCTGCATC
 TGGAACTTCTCTGGTCTCTCAGCTGGGCCACTGTCCGCATCATGATTGGAGTGTGGTTGGGTTGCT
 CTGATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206434 representing NM_004363
 Red=Cloning site Green=Tags(s)

MESPSAPPHRWCI PWQRLLLTASLLTFWNPPTAKLTIESTPFNVAEGKEVLLL VHNLPQHLFGYSWYKG
 ERVDGNRQIIGYVIGTQQATPGPAYSGREI IYPNASLLIQNIIQNDFYTLHVIKSDLVNEEATGQFRV
 YPELKPSSISSNNSKPVEDKDAVAFTCEPETQDATYLVWVNNQSLPVSRLQLSNGNRTLTLFNVTRNDT
 ASYKCEQNPVSARRSDSVILNVLYGPDAPTISPLNTSYRSGENLNL SCHAASNPPAQYSWFVNGTFQQS
 TQELFIPNITVNNSGSYTCQAHNSDTGLNRTTITVYAEPPKPFITSNNSNPVEDEDAVLTCEPEIQ
 NTTYLVWVNNQSLPVSRLQLSNDNRTL TLLSVTRNDVGPYECGIQNELSVDHSDPVILNVLYGPDPTI
 SPSYTYRPGVNL SLSCHAASNPPAQYSWLIDGNIQQHTQELFISNITEKNSGLYTCQANNSASGHSRTT
 VKTITVSAELPKPSISSNNSKPVEDKDAVAFTCEPEAQNTTYLVWVNGQSLPVSRLQLSNGNRTLTLFN
 VTRNDARAYVCGIQNSVSANRSDPVTL DVLYGPDPTIISPDPSSYLSGANLNL SCHAASNPPSQYSWRIN
 GIPQQHTQVLFIAKITPNNNGTYACFVSNLATGRNNSIVKSITVSASGTSPLSAGATVGMIGVLVGLV
 LI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004363

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_004363.6](#)

RefSeq Size: 3600 bp

RefSeq ORF: 2109 bp

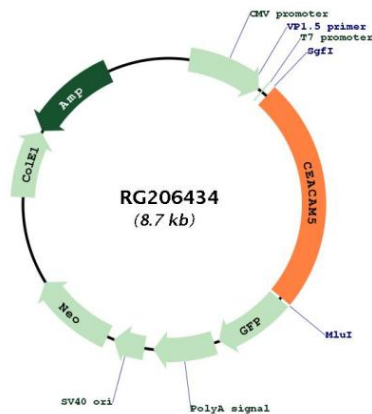
Locus ID: 1048

UniProt ID: [P06731](#)

Cytogenetics: 19q13.2

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]

Product images:



Circular map for RG206434