

Product datasheet for **SC126003**

CEACAM5 (NM_004363) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEACAM5 (NM_004363) Human Untagged Clone
Tag:	Tag Free
Symbol:	CEACAM5
Synonyms:	CD66e; CEA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_004363 edited
 GGACAGCAGACCAGACAGTCACAGCAGCCTTGACAAAACGTTCTGGAAGTCAAGCTCTT
 CTCCACAGAGGAGGACAGAGCAGACAGCAGAGACCATGGAGTCTCCCTCGGCCCTCCCC
 ACAGATGGTGCATCCCCTGGCAGAGGCTCCTGCTCACAGCCTCACTTCTAACCTTCTGGA
 ACCCGCCACCCTGCCAAGTCACTATTGAATCCACGCCGTTCAATGTCGCAGAGGGGA
 AGGAGGTGCTTCTACTTGTCCACAATCTGCCCCAGCATCTTTTGGCTACAGCTGGTACA
 AAGTGAAAGAGTGGATGGCAACCGTCAAATTATAGGATATGTAATAGGAACTCAACAAG
 CTACCCAGGGCCGCATACAGTGGTCGAGAGATAATATACCCCAATGCATCCCTGCTGA
 TCCAGAACATCATCCAGAATGACACAGGATTCTACACCCTACACGTCATAAAGTCAGATC
 TTGTGAATGAAGAAGCAACTGGCCAGTTCGGGTATACCCGAGCTGCCAAGCCCTCCA
 TCTCCAGCAACAACCTCAAACCCGTGGAGGACAAGGATGCTGTGGCCTTACCTGTGAAC
 CTGAGACTCAGGACGCAACCTACCTGTGGTGGTAAACAATCAGAGCCTCCCGTCACTC
 CCAGGCTGCAGCTGTCCAATGGCAACAGGACCCTCACTCTATTCAATGTCACAAGAAATG
 ACTCAGCAAGCTACAAATGTGAAACCCAGAACCAGTGAAGTCCAGGCGCAGTGATTGAG
 TCATCCTGAATGCTCTATGGCCCGGATGCCCCACCATTTCCCTCTAACACATCTT
 ACAGATCAGGGGAAAATCTGAACCTCTCCTGCCACGCAGCTCTAACCCACTGCACAGT
 ACTCTTGGTTTGTCAATGGGACTTTCAGCAATCCACCCAAGAGCTCTTTATCCCAACA
 TCACTGTGAATAATAGTGGATCCTATACGTGCCAAGCCATAACTCAGACACTGGCCTCA
 ATAGGACCACAGTCACGACGATCACAGTCTATGCAGAGCCACCCAACCCCTTCATACCA
 GCAACAACCTCAAACCCGTGGAGGATGAGGATGCTGTAGCCTTAACCTGTGAACCTGAGA
 TTCAGAACACAACCTACCTGTGGTGGTAAATAATCAGAGCCTCCCGTCACTCCAGGC
 TGCAGCTGTCCAATGACAACAGGACCCTCACTCTACTCAGTGTACAAGGAATGATGTAG
 GACCTATGAGTGTGGAATCCAGAACGAATTAAGTGTGACCACAGCGACCCAGTCATCC
 TGAATGTCTCTATGGCCAGACGCCACCATTTCCTCTATACACCTATTACCGTC
 CAGGGGTGAACCTCAGCCTCTCCTGCCATGCAGCCTCTAACCCACTGCACAGTATTCTT
 GGCTGATTGATGGGAACATCCAGCAACACACACAAGAGCTCTTTATCTCCAACATCACTG
 AGAAGAACAGCGGACTCTATACCTGCCAGGCCAATAACTCAGCCAGTGGCCACAGCAGGA
 CTACAGTCAAGACAATCACAGTCTCTGCGGAGCTGCCAAGCCCTCCATCTCCAGCAACA
 ACTCAAACCCGTGGAGGACAAGGATGCTGTGGCCTTACCTGTGAACCTGAGGCTCAGA
 ACACAACCTACCTGTGGTGGTAAATGGTCAGAGCCTCCAGTCACTCCAGGCTGCAGC
 TGTCGAATGGCAACAGGACCCTCACTCTATTCAATGTCACAAGAAATGACGCAAGAGCCT
 ATGATGTGGAATCCAGAACTCAGTGAAGTGCAAACCGCAGTGACCCAGTCAACCCTGGATG
 TCCTCTATGGGCCGGACACCCCATCATTTCCCCCAGACTCGTCTTACCTTTCGGGAG
 CGAACCTCAACCTCTCCTGCCACTCGGCCTTAACCCATCCCCGAGTATTCTTGGCGTA
 TCAATGGGATACCGCAGCAACACACACAAGTTCTTTATCGCAAAATCACGCCAAATA
 ATAACGGGACCTATGCCTGTTTTGTCTCTAACTGGCTACTGGCCGAATAATCCATAG
 TCAAGAGCATCACAGTCTCTGCATCTGGAACCTCTCCTGGTCTCTCAGCTGGGGCCACTG
 TCGGCATCATGATTGGAGTGTGGTGGGTTGCTCTGATATAGCAGCCCTGGTGTAGTT
 TCTTCATTTCAGGAAGACTGACAGTTGTTTTGCTTCTTCTTAAAGCATTGCAACAGCT
 ACAGTCTAAAATTGCTTCTTTACCAAGGATATTTACAGAAAAGACTCTGACCAGAGATCG
 AGACCATCTAGCCAACATCGTGAACCCCATCTCTACTAAAAATACAAAATGAGCTGG
 GCTTGGTGGCGGCACCTGTAGTCCAGTTACTCGGGAGGCTGAGGCAGGAGAATCGCTT
 GAACCCGGGAGGTGGAGATTGCAGTGAAGCCAGATCGACCACTGCACCTCAGTCTGGCA
 ACAGAGCAAGACTCCATCTAAAAAGAAAAGAAAAGAAAGACTCTGACCTGTACTTTGAA
 TACAAGTTTCTGATACCACTGCACTGTCTGAGAATTTCCAAAACTTTAAATGAACTAACTG
 ACAGCTTCATGAAACTGTCCCCAAGATCAAGCAGAGAAAATAATTAATTTTATGGGACT
 AAATGAACTAATGAGGATAATATTTTCAATTTTTTTATTTGAAATTTTGTGATTCTTT
 AAATGTCTTGTTCAGATTTCCAGATTTCCAGAACTTTTTTTCTTTTAAAGCTATCCACAGCTTAC
 AGCAATTTGATAAAATATACTTTTGTGAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAA

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004363 unedited GTTTTGATTTGTATACGACTCACTATAGGCGGACCGCAATCANATCTGGTACCGGTCCG GAATTCCTCCGGGATGGACAGCAGACCAGACAGTCACAGCAGCCTTGACAAAACGTTCTCTGG AACTCAAGCTCTTCTCCACAGAGGAGGACAGAGCAGACAGCAGAGACCATGGAGTCTCCC TCGGCCCTCCCCACAGATGGTGCATCCCCTGGCAGAGGCTCCTGCTCACAGCCTCACTT CTAACCTTCTGGAACCCGCCCACTGCCAAGCTCACTATTGAATCCACGCCGTTCAAT GTCGCAGAGGGGAAGGAGGTGCTTCTACTTGTCCACAATCTGCCCCAGCATCTTTTTGGC TACAGCTGGTACAAAGGTGAAAGAGTGGATGGCAACCGTCAAATTATAGGATATGTAATA GGAACCTCAACAAGCTACCCAGGGCCCGCATACAGTGGTCGAGAGATAATATACCCCAAT GCATCCCTGCTGATCCAGAACATCATCCAGAATGACACAGGATTCTACCCCTACACGTC ATAAAGTCAGATCTTGTGAATGAAGAAGCAACTGGCCAGTTCGGGTATACCCGGAGCTG CCCAAGCCCTCCATCTCCAGCAACAACCTCAAACCCGTGGAGGACAAGGATGCTGTGGCC TTCACCTGTGAACCTGAGACTCAGGACGCAACCTACCTGTGGTGGGTAACAATCAGAG CCTCCGGTCAGTCCAGGCTGCAGCTGTCCAATGGCAACAGGACCCTCACTCTATNCAAT GTNCACAGAAATGACTCANNGCAGCTACAATGTGAAAACCCNAGACCCAGTGAGTGCCCA GGCAGTGATTAGTATCCTGGGGTCTCTATGGCCNCGGATGCCNCACCATTTCCCCT TCTAACACATCTTAAGATCAGGGGAAAATCTGAGCCTCT
Restriction Sites:	Please inquire
ACCN:	NM_004363
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
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_004363.1 , NP_004354.1
RefSeq Size:	2974 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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Both variants 1 and 2 encode the same isoform. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.