

Product datasheet for **MG213593**

Ceacam5 (NM_028480) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ceacam5 (NM_028480) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ceacam5
Synonyms:	1600029H12Rik; Psg30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG213593 representing NM_028480
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGCATCCTCTGCTTCCATGCAAGTGGTGTACCCACTTGCAGGGGCTTCTGCTCACAGCCTCCT
 TTTAACCTGCTGTCACCTGCCTACCCTGCACAAATAACCATTGAATTAGAGCCACCCCAAGTGATTGA
 AGGAGAAAATGTTCTCATACGTGTCAACAATTTGACAGAGAATCTATAACCTTAGCCTGGTTCAGAGGA
 ATGAGGATTAAGAGCCCTCAAATGGACAATAACACCGGCCACTAAAGTACTGTGCTGGGCTCTGGTC
 ACAGTGGTAGAGAACTTTGTACAGCAATGGATCCCTGCAGATCTACAATGTACCCAGGAGGACATAGG
 ATTCTACAGCCTACGAATCATAAATAAACATGCAGAAATGTGTCAATAACATCCATACCTCAACGTG
 TACTCATCTCTATGGACATGTGAGCACCTTCTCCCCATGCCAAGCTCACCATTGAATCAGTGCCACCCG
 GCATTTCTGAAGGGGAAGTGTCTTCTACTGGTTAAAAATCTCCCCAAAATCTTCTATCCCTTTTCTG
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 CCAGGGCCTGCACACACTGGTCTGTGAGACAGTATTCAGCAATGGATCCCTTCTGCTACAGGAAAGTTATGC
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 GCTGTACATGGACACCTATCTTTGACTTGTTATCACCTTTGCAAGTCAAGATCGAATCACTTCCCTCAG
 AATGTTGCTGTAGGAAAAGTGTCTTCTTAGTTTCAATTTGCTGAAGACTTTCAAGCATTTTTCT
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 CACTTCTCGGAATGTTGCTGTAGGAAAAGTGTCTTTTCTGGTTCATAATTTCCAGAAGTCTTTTCG
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 AGCCTATGTTCAACTCCATGTAATAGCTTTGTTCCAACTCAAAGGTCTCTGTCTCCACTGCAAGGCTC
 AGTATAGAATCAGTGCCCCCAGCATTGTTGGAGGGGAAAGTGTCTTCTACTGGTTCACAATCTTCCAA
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 CCAAAGGATGTTACAGCAATTTTCTGGTACAAATCGGTGTATCGAACAGATATTTTTAAAATTGCAGAAT
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 CTGACACCACAGTACAGTACAGAGCTCAGTAGTCTTCACTTGTCTCAGCTGACCCTGGTGTCTCCAT
 CCGTTGGCTTCTCAATAAGCAGAGTCTGCAGCTCACAGAGAGAATGACACTTTCCCATCAAAGTGCCAA
 CTCAGCATAGATCTGTCTGGAGGGAGGATGCTGGAAAGTATCAATGTGAGGTCTCCAACCCAGTCAAGT
 CAAAGTCCAGTCTCCAGTCCGCTGGCTGTGATAGAAGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG213593 representing NM_028480
Red=Cloning site Green=Tags(s)

MEASSVLPCKWCTHLQGLLLTASFLTCCHLPPTAQITIELEPPQVIEGENVLIRVNNLTENLITLAWFRG
MRIKSPQIGQYTPATKVTVLPGHSGRETLYSNGSLQIYNVTQEDIGFYSRLRIINKHAEIVSITSIYLN
YSSLWTCHEHPSPHAKLTIESVPPGISEGGSVLLLKPNLPQNLLSLFWYKGVIAVKKFEIARHIKATNSSV
PGPAHTGRETVFVNGSLLQEVMSQSDTGFYTLRTMSTDLKDEVAHVQLYMDTYLLTCYHPLQVKIESLPQ
NVAVGKTVLLL VHNL PEDFQAFFWYKSAYRRD TYKIAEYKRAMDATILGSAYSSREFIYNNGSM LIIDVT
EDDAGYFLL EILREDLKIEKAYIQLHVNSFVSNKDSASTARLSIESVPPSIVEGGSVLLL VHNL PKNLQ
SLFWYKGMIAEKKSELIQHIIATSSSLPGPAHSGRET VYNNGSLLLQRVMQNDTGFYTLQTM DTDLKYEV
AHVQLQLDTSLS TWYHPLQVKIESLPRNVAVGKSVLFLVHNFPEVFRAFSWYKPAYKSHTSKIVEYHRFT
DSATVGAAYRGIEVIFTNGSMVMIDVTEDDAGFYMLEILREDFKVEKAYVQLHVNSFVPSKVSSTARL
SIESVPPSIVGGESVLLL VHNL PKNLQSLFWYKGVIAEKKSELIQHIIATSSSLPGPAHSGRET VYNSG
LLLQRVMQNDTGFYTL TMSD LKDEIAHVQLQLDTS TCCSLLTSDQLIIVPVRNIAVGKSVLLLVCNV
PKDVQTI FWYKSVYRTDIFKIAEYSRSMESTIWGLAHSGKEMVY TNGSLLIQNVTEHDAGLYMLEILHKD
YKLERAHVQVHVNPNVSWPFRVVDTTVRVQSSVFTCF SADPGVSIRWLFNKQSLQLTERMTLSPSKCQ
LSIDPVWREDAGKYQCEVSNPVSSKSSLPVRLAVIEE

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3166_a04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_028480

ORF Size: 2841 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:

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_028480.2](#), [NP_082756.1](#)

RefSeq Size: 3248 bp

RefSeq ORF: 2844 bp

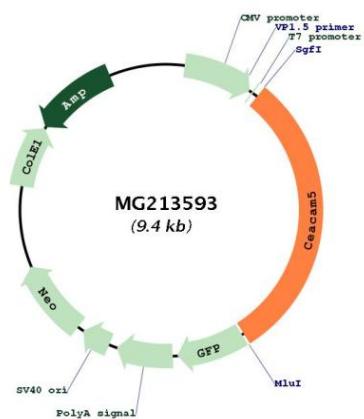
Locus ID: 73250

UniProt ID: [Q3UUK2](#)

Cytogenetics: 7 A2

Gene Summary: Cell surface glycoprotein that plays a role in cell adhesion, intracellular signaling and tumor progression. Mediates homophilic and heterophilic cell adhesion with other carcinoembryonic antigen-related cell adhesion molecules, such as CEACAM6. Plays a role as an oncogene by promoting tumor progression; induces resistance to anoikis of colorectal carcinoma cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG213593