

## Product datasheet for **RC215478**

### **CEACAM18 (NM\_001080405) Human Tagged ORF Clone**

#### **Product data:**

|                                  |                                                                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Type:</b>             | Expression Plasmids                                                                                                                                                        |
| <b>Tag:</b>                      | Myc-DDK                                                                                                                                                                    |
| <b>Symbol:</b>                   | CEACAM18                                                                                                                                                                   |
| <b>Synonyms:</b>                 | 2010110O04Rik; carcinoembryonic antigen-related cell adhesion molecule 1; carcinoembryonic antigen-related cell adhesion molecule 18; CEA-related cell adhesion molecule 1 |
| <b>Mammalian Cell Selection:</b> | Neomycin                                                                                                                                                                   |
| <b>Vector:</b>                   | pCMV6-Entry (PS100001)                                                                                                                                                     |
| <b>E. coli Selection:</b>        | Kanamycin (25 ug/mL)                                                                                                                                                       |



**ORF Nucleotide Sequence:** >RC215478 representing NM\_001080405  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGAGGTGTCTGGCTGCCCCACCCCTGCTGGTCAGAGTGCACCCTGGGGAGGAAAGGCCGCCCTGAAGG  
 CTGGGAGACGAGACCGGCAGCCTCTGTGCCAGGAGACACAGGTCTTGGAGGGAGCAGAGGAGGTGGCTGT  
 GTCTCTGGAGGGACCCCTCCTCTGGAGGACCCAGGCAGCTCATGGACCTTTCAGACCCAGATGGAGC  
 CTGTGGAGGAGGTCTTCTCATGGCCAGTCTGCTGGCCTGTGGGATCTGCCAGGCCTCTGGCCAAATCT  
 TCATACCCAAACCCTGGGGATCAAGGATATCGGACTGTCTGGCCCTGGATAAGGTCCCTGAGGATGT  
 TCAGGAATACAGCTGGTACTGGGGTGCAACGACAGCGCAGGAAACATGATTATCAGCCACAAACCGCCC  
 AGTGCCAGCAGCCTGGGCCATGTACACTGGCAGGAGAGAGTGAACAGAGAAGGCAGCCTGTTGATCA  
 GGCCGACTGCATTAATGACACGGGAACTACACTGTTCTGGGTGGTTCAGGCAATGAGACCCAAAGAGC  
 AACCGCTGGCTGGAGTTCTAGAGTTGGGAAGCAATCTGGCATCTCCGTCAATGCCAGCTCCCTGGTG  
 GAGAACATGGATTCTGTGGCTGCTGACTGCCTCACAATGTCAACACATCACGTGGTATGTGAATGATG  
 TGCCTACCTCTAGTAGTGACCGGATGACAATTTCCCCAGACGGCAAGACCCTCGTCATCCTCAGGGTCAG  
 CCGCTATGACAGAACAAATTCAGTGCATGATAGAGAGTTCCAGAGATCTTTCAGAGAAGTGAACGCATC  
 TCTCTGACTGTGGCCTATGGGCCGACTATGTGCTGCTGAGGAGCAATCCTGATGATTTCAACGGCATTG  
 TGACAGCTGAGATCGGCTCCCAAGTGGAAATGGAGTGTATCTGCTATTCCTTCTGGATCTCAAGTACCA  
 CTGGATCCACAATGGCTCCCTCCTGAATCTCTCAGATGCAAAGATGAACCTCTCGAGTCTTGCCTGGGAG  
 CAGATGGGCCGTTACCGATGCACTGTGGAGAACCCGTGACACAGCTGATCATGTACATGGACGTCAGGA  
 TCCAGGCCCCCATGAGTGCAGCAGCTCCCTCCAGGCTCATGCTTGCACATCTCCTGCCTCCATGCC  
 CTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC215478 representing NM\_001080405  
 Red=Cloning site Green=Tags(s)

MEVSGCPTPAGQSAPWGGKAALKAGRRDRQPLCQETQVLEGAEVAVSLEGPLLLLEDPRQLMDLSRPRWS  
 LWRRVFLMASLLACGICQASGQIFITQTLGIKGYRTVVALDKVPEDVQEYSWYWGANDSAGNMIISHKPP  
 SAQQPGPMYTGRERVNREGSLIRPTALNDTGNVTVRVVAGNETQRATGWLEVLGSLNLSVNASL  
 ENMDSVAADCLTNVTNITWYVNDVPTSSSDRMTISPDGKTLVILRVSRVDRTIQCMIESFPEIFQRSERI  
 SLTVAYGPDYVLLRSNPDDFNGIVTAIEGSQVEMECICYSFLDLKYHWHNGSLLNFSDAKMNLSSLWE  
 QMGRYRCTVENPVTQLIMYMDVRIQAPHECSPSPGSCFAHLPASMP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8027\\_c02.zip](https://cdn.origene.com/chromatograms/mk8027_c02.zip)

**Restriction Sites:** SgfI-MluI

## Cloning Scheme:



ACCN: NM\_001080405

ORF Size: 1194 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:**

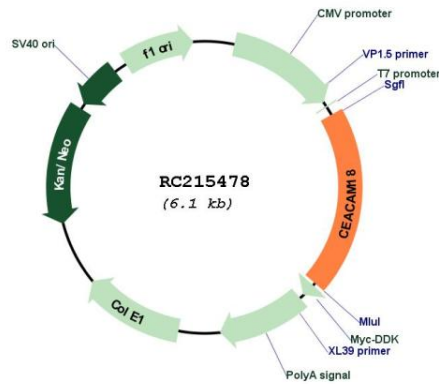
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

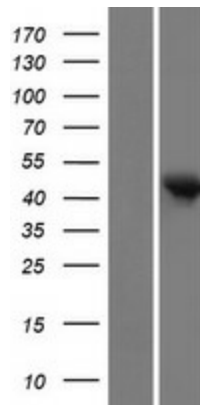
**RefSeq:** [NM\\_001080405.1](#), [NP\\_001073874.1](#)

|               |          |
|---------------|----------|
| RefSeq Size:  | 1197 bp  |
| RefSeq ORF:   | 1196 bp  |
| Locus ID:     | 729767   |
| Cytogenetics: | 19q13.41 |
| MW:           | 43.9 kDa |

## Product images:



Circular map for RC215478



Western blot validation of overexpression lysate (Cat# [LY421622]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215478 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).