

## Product datasheet for **MR204481**

### **Epcam (NM\_008532) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Epcam (NM_008532) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Epcam
Synonyms:	CD326; EGP; EGP-2; Egp314; Ep-CAM; EpCAM1; GA733-2; gp40; Ly74; Tacsd1; Tacstd1; TROP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204481 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGGTCCCCAGGCCCTCGCGTTCGGGCTCCTGCTCGCGGTGGTCACAGCGACGCTGGCCGCGGCTC  
AGAGAGACTGTGTCTGTGACAACATAAGCTGGCAACAAGTTGCTCTGAATGAATATGGTGAATGCCA  
GTGTACTTCTATGGTACACAGAATACTGTCATTTGCTCCAACTGGCGTCTAAATGCTTGGCGATGAAA  
GCAGAAATGACTCACAGCAAGTCTGGGAGGAGGATAAAGCCCGAAGGGGGGATCCAGAACAACGATGGC  
TGTACGACCCGACTGCGACGAGCAGGGGCTCTCAAAGCCAAGCAGTGAACGGCACCGCCACGTGCTG  
GTGTGTCAACACCGCCGAGTCCGAAGAACCACAAAGGACACGGAGATCACGTGCTCCGAGCGCGTGAGG  
ACCTACTGGATCATCATTGAACTAAAACACAAAGAAAGAGAAAGCCCTACGACCATCAGAGCTTGCAGA  
CTGCGCTTCAAGAGGCGTTCACATCTCGATATAAGCTGAATCAGAAATTTATCAAAAACATTATGTATGA  
GAATAATGTTATCACCATTGATCTGATGCAAACTCTTCTCAGAAAACACAAGACGACGTGGACATAGCT  
GATGTGGCTTACTATTTGAAAAAGATGTGAAGGGGAGTCCCTGTTCCATTCTTCTAAGAGCATGGACC  
TGAGAGTGAACGGAGAGCCGCTCGATCTGGACCCGGGACAGACTGATTTACTACGTTGATGAAAAGGC  
ACCCGAGTTCTCCATGCAGGGCCTCACGGCCGGGATCATCGCTGTATTGTTGGTGTGTCATTAGCAGTC  
ATCGCGGGGATTGTTGTCTGTTATATCTACAAGGAAGAAATCAGCAAAATATGAGAAGGCTGAGATAA  
AGGAGATGGGTGAGATCCACAGAGAGCTTAATGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204481 protein sequence  
Red=Cloning site Green=Tags(s)

MAGPQALAFGLLLAVVTATLAAAQRDCVCDNYKLATSCSLNEYGECQCTSYGTQNTVICSKLASKCLAMK  
 AEMTHSKSGRRRIKPEGAIQNNDGLYDPCDEQGLFKAKQCNGTATCWCVNTAGVRRTRDKDTEITCSEVR  
 TYWIIIELKHKERESPYDHQSLQALQEAFTRSYKLNQKFIKNIMYENNVITIDLMOSSQKTQDDVDIA  
 DVAYYFEKDVKGESLFHSSKSMDLRVNGEPLDLDPGQTLIYVVDEKAPEFSMQGLTAGIIAVIVVSLAV  
 IAGIVVLVISTRKKSAYEKAIEKEMGEIHRELNA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_008532

**ORF Size:** 948 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\\_008532.2](#), [NP\\_032558.2](#)

**RefSeq Size:** 2061 bp

**RefSeq ORF:** 948 bp

**Locus ID:** 17075

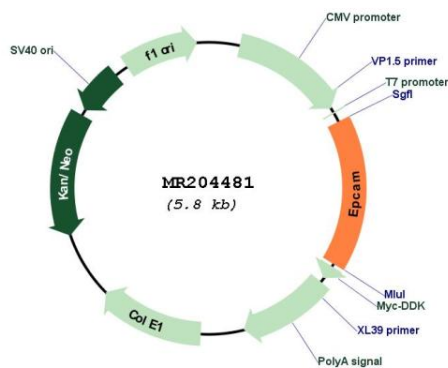
**UniProt ID:** [Q99JW5](#)

**Cytogenetics:** 17 E4

**MW:** 35 kDa

**Gene Summary:** May act as a physical homophilic interaction molecule between intestinal epithelial cells (IECs) and intraepithelial lymphocytes (IELs) at the mucosal epithelium for providing immunological barrier as a first line of defense against mucosal infection. Plays a role in embryonic stem cells proliferation and differentiation. Up-regulates the expression of FABP5, MYC and cyclins A and E (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204481