

Product datasheet for **MG204481**

Epcam (NM_008532) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epcam (NM_008532) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Epcam
Synonyms:	CD326; EGP; EGP-2; Egp314; Ep-CAM; EpCAM1; GA733-2; gp40; Ly74; Tacsd1; Tacstd1; TROP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204481 representing NM_008532 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGTCCCCAGGCCCTCGCGTTCGGGCTCCTGCTCGCGGTGGTCACAGCGACGCTGGCCGCGGCTC
AGAGAGACTGTGTCTGTGACAACATAAGCTGGCAACAAGTTGCTCTGAATGAATATGGTGAATGCCA
GTGTACTTCCTATGGTACACAGAATACTGTCATTTGCTCCAACTGGCGTCTAAATGCTTGGCGATGAAA
GCAGAAATGACTCACAGCAAGTCTGGGAGGAGGATAAAGCCCGAAGGGGGGATCCAGAACAACGATGGC
TGTACGACCCGACTGCGACGAGCAGGGGCTCTCAAAGCCAAGCAGTGAACGGCACCGCCACGTGCTG
GTGTGTCAACACCGCCGAGTCCGAAGAACCACAAAGGACACGGAGATCACGTGCTCCGAGCGCGTGAGG
ACCTACTGGATCATCATTGAACTAAAACACAAAGAAAGAGAAAGCCCTACGACCATCAGAGCTTGACAG
CTGCGCTTCAAGAGGCGTTCACATCTCGATATAAGCTGAATCAGAAATTTATCAAAAACATTATGTATGA
GAATAATGTTATCACCATTGATCTGATGCAAACTCTTCTCAGAAAACACAAGACGACGTGGACATAGCT
GATGTGGCTTACTATTTTAAAAAGATGTGAAGGGGGAGTCCCTGTTCCATTCTTCTAAGAGCATGGACC
TGAGAGTGAACGGAGAGCCGCTCGATCTGGACCCGGGACAGACTCTGATTTACTACGTTGATGAAAAGGC
ACCCGAGTTCTCCATGCAGGGCCTCACGGCCGGGATCATCGCTGTATTGTTGGTGTGTCATTAGCAGTC
ATCGCGGGGATTGTTGTCTGTTATATCTACAAGGAAGAAATCAGCAAAATATGAGAAGGCTGAGATAA
AGGAGATGGGTGAGATCCACAGAGAGCTTAATGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204481 representing NM_008532
 Red=Cloning site Green=Tags(s)

MAGPQALAFGLLLAVVTATLAAAQRDCVCDNYKLATSCSLNEYGECQCTS YGTQNTVICSKLASKCLAMK
 AEMTHSKSGRRRIKPEGAIQNNDGLYDPCDEQGLFKAKQCNGTATCWCVNTAGVRRTRDKDTEITCSERVR
 TYWIIIELKHKERESPYDHQSLQTLQEAFTSRYKLNQKFIKNIMYENNVITIDLMQNSSQKTQDDVDIA
 DVAYYFEKDVKGESLFHSSKSMDLRVNGEPLDLDPGQTLIYVVDEKAPEFSMQGLTAGIIAVIVVSLAV
 IAGIVVLVISTRKKSAYEKAIEKEMGEIHRELNA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008532

ORF Size: 945 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

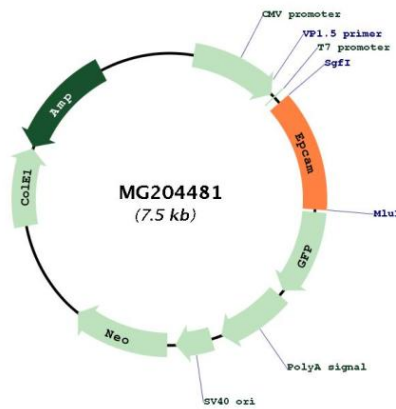
Locus ID: 17075

UniProt ID: [Q99JW5](#)

Cytogenetics: 17 E4

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 MG204481