

Product datasheet for SC118692

EPCAM (NM_002354) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPCAM (NM_002354) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPCAM
Synonyms:	DIAR5; EGP-2; EGP40; EGP314; ESA; HNPCC8; KS1/4; KSA; M4S1; MIC18; MK-1; TACSTD1; TROP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118692 sequence for NM_002354 edited (data generated by NextGen Sequencing)

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ATGGCGCCCCCGCAGGTCCTCGCGTTCGGGCTTCTGCTTGCCGCGGCGACGGCGACTTTT
GCCGCAGCTCAGGAAGAATGTGTCTGTGAAAACACAAGCTGGCCGTAACCTGCTTTGTG
AATAATAATCGTCAATGCCAGTGTACTTCAGTTGGTGCACAAAATACTGTCATTTGCTCA
AAGCTGGCTGCCAAATGTTTGGTGATGAAGGCAGAAATGAATGGCTCAAAACTTGGGAGA
AGAGCAAAACCTGAAGGGGCCCTCCAGAACAATGATGGGCTTTATGATCCTGACTGCGAT
GAGAGCGGGCTCTTTAAGGCCAAGCAGTGCAACGGCACCTCCACGTGCTGGTGTGTGAAC
ACTGCTGGGGTCAGAAGAACAGACAAGGACACTGAAATAACCTGCTCTGAGCGAGTGAGA
ACCTACTGGATCATCATTGAACTAAAACACAAAGCAAGAGAAAAACCTTATGATAGTAAA
AGTTTGCGGACTGCACTTCAGAAGGAGATCACACGCGTTATCAACTGGATCCAAAATTT
ATCACGAGTATTTTGTATGAGAATAATGTTATCACTATTGATCTGGTTCAAAATCTTCT
CAAAAACTCAGAATGATGTGGACATAGCTGATGTGGCTTATTATTTGAAAAAGATGTT
AAAGGTGAATCCTTGTTTCATTCTAAGAAAATGGACCTGACAGTAAATGGGGAACAACTG
GATCTGGATCCTGGTCAAACCTTAATTTATTATGTTGATGAAAAAGCACCTGAATTCTCA
ATGCAGGGTCTAAAAGCTGGTGTATTGCTGTTATTGTGGTTGTGGTGATAGCAGTTGTT
GCTGGAATTGTTGTGCTGGTTATTTCCAGAAAAGAGAATGGCAAAGTATGAGAAGGCT
GAGATAAAGGAGATGGGTGAGATGCATAGGGAACCTCAATGCATAA
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Clone variation with respect to NM_002354.2
344 t=>c



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002354 unedited</p> <pre>GTTGGGATTTGTATCCGACTTATATAGGGCGGCCGCGATTCCGGCAGGAGCTTCGGCGAG CGAGCACCTTCGACGCGGTCCGGGGACCCCTCGTCGCTGCCTCCCGACGCGGACCCGC GTGCCCCAGGCCCTCGCGCTGCCCGGCCGCTCCTCGTGTCCACTCCCGGCGCACGCCCT CCCGCGAGTCCCGGGCCCTCCCGCGCCCTCTTCTCGGCGCGCGCAGCATGGCGCC CCGCAGGTCTCGGCTTCGGCTTCTGCTTGCCCGGCGACGGCGACTTTTGCCGACAGT CAGGAAGAAATGTGTCTGTGAAAACACAAGCTGGCCGTAACCTGCTTTGTGAATAATAAT CGTCAATGCCAGTGTACTTCAGTTGGTGACAAAATACTGTCAATTTGCTCAAAGCTGGCT GCCAAATGTTTGGTGATGAAGGCAGAAATGAATGGCTCAAACCTGGGAGAAAGAGCAAAA CCTGAAGGGGCCCTCCAGAAACAATGATGGGCTTTATGATCCTGACTGCGATGAGAGCGGG CTCTTTAAGGCCAAGCAGTGCAACGGCACCTCCACGTGCTGGTGTGTAACACTGCTGGG GTCAGAAGAACAGACCAGGACACTGAAATAACCTGCTCTGAGCGAGTGAGAACCTACTGG ATCATCATTGAACTAAAACACAAAGCAAGAGAAAAACCTTATGATAGTAAAAGTTTGGCG ACTGCACTTCAGAAAGGAGATCACACGCGTTATCAACTGGATCCAAATTTATCACGAGTA TTTTGTATGAGAAATATGTTATCACTATTGATCTGGGTCANAATTTCTTCAAACACTCA GATGATGTGGCATAGCTGATGTGGCTTATTATTTTGAAGATGTTAAGGTGAATCTGNT TCATTCTAGAATGG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002354 unedited</p> <pre>GTACGCGCCGCTCTCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTTCAGTTTTTCAGATTTT ACTGTGGAAGCATATTTAATGCACACATCTTGAATGTTACACATAAATAATTTAACGAT GGAGTCCAAGTCTGGATTTTACATTAGATCTGCATATAAAGACACTTGTGGTCAAATT TCAAGATTGGTAAAGCCAGTTTCAAGCTGCTTATATTTGAGTACAGTTTCACTATTAC AAATATATGATGTTAAACTAACAACTCATGACCTTCAAAGATGTCTTCGTCACGCAC ACACATTTGTAATTTGTGCCATTTGCTATTTCCCTTCTCTATAATCTTCAAATATAT AGTTATGCATTGAGTCCCTATGCATCTCACCCATCTCCTTTATCTCAGCCTTCTCATAC TTTGCCATTTCTTTCTTCTGAAATAACCAGCACAACATTTCCAGCAACAACCTGCTATC ACCACAACCACATTAACAGCATTAAACACCAGTTTTAGACCCTGCATTGAGAAATTCAGGT GCTTTTTCATCAACATAATAAATTAAGTTTGACCAGGATCCAGATCCAGTTGTTCCCCA TTTACTGTCAGGTCCATTTTCTTAGAATGAAACAAGGATTCACCTTAAACATCTTTTTCA AAATAAAGCCACATCAGCTATGTCCACATCATTCTGAGTTTTTGGAGAAGATTTTGA ACCAGATCAATAGTGATAACATTATTCTCATACAAATACTCGAGATAAATTTGGATACA GTTGATAACGCGTTGTGATCCTCCTCCTGAGTGCACGCCCGCAACTTTTACTATCATAAA GGTTTTCTCTTGCTTGTGATTTTAGTTAAAGATGATCAGTAGTTCCAACCTCGCTCAGAGCA GTTATTTAATGTCCTTGTCTGTTCTTTGACCCACAGGGTTCACACCCAACCAGGAAGGT GCCGTTCACTGCTTGGCCTTAATGACCCGCTTCATCGCATCCAGGATCTTATGCCCTCCT T</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_002354
Insert Size:	1470 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_002354.1](#), [NP_002345.1](#)

RefSeq Size: 1528 bp

RefSeq ORF: 945 bp

Locus ID: 4072

UniProt ID: [P16422](#)

Cytogenetics: 2p21

Domains: thyroglobulin_1

Protein Families: ES Cell Differentiation/IPS, Transmembrane

Gene Summary: This gene encodes a carcinoma-associated antigen and is a member of a family that includes at least two type I membrane proteins. This antigen is expressed on most normal epithelial cells and gastrointestinal carcinomas and functions as a homotypic calcium-independent cell adhesion molecule. The antigen is being used as a target for immunotherapy treatment of human carcinomas. Mutations in this gene result in congenital tufting enteropathy. [provided by RefSeq, Dec 2008]