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Product datasheet for RC217229

Epithelial Stromal Interaction 1 (EPSTI1) (NM_033255) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epithelial Stromal Interaction 1 (EPSTI1) (NM_033255) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Epithelial Stromal Interaction 1
Synonyms:	BRESI1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

```
>RC217229 representing NM_033255
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACACCCGCAATAGAGTGGTGAACTCCGGGCTCGGCGCCTCCCCTGCCTCCCGCCCGACCCGGGATC
CCCAGGACCCTTCTGGGCGGCAAGGGGAGCTGAGCCCCGTGGAAGACCAGAGAGAGGGTTTGGAGGCAGC
CCCTAAGGGCCCTTCGCGGGAGAGCGTCGTGCACGCGGGCCAGAGGCGCACAAGTGCATACACCTTGATA
GCACCAAATATAAACCGGAGAAATGAGATACAAAGAATTGCGGAGCAGGAGCTGGCCAACCTGGAGAAGT
GGAAGGAGCAGAACAGAGCTAAACCGGTTCACCTGGTGCCCAGACGGCTAGGTGGAAGCCAGTCAGAAAC
TGAAGTCAGACAGAAACAACAACTCCAGCTGATGCAATCTAAATACAAGCAAAAGCTAAAAAGAGAAGAA
TCTGTAAGAATCAAGAAGGAAGCTGAAGAAGCTGAACTCCAAAAAATGAAGGCAATTCAGAGAGAGAAGA
GCAATAAACTGGAGGAGAAAAAAAGACTTCAAGAAAACCTTAGAAGAGAAGCATTTAGAGAGCATCAGCA
ATACAAAACCGCTGAGTTCTTGAGCAAACTGAACACAGAATCGCCAGACAGAAGTGCCTGTCAAAGTGCT
GTTTGTGGCCCACAATCCTCAACATGGGCCAGAAGCTGGGCTTACAGAGATTCTCTAAAGGCAGAAGAAA
ACAGAAAATTGCAAAAGATGAAGGATGAACAACATCAAAAGAGTGAATTACTGGAACTGAAACGGCAGCA
GCAAGAGCAAGAAAGAGCCAAAATCCACCAGACTGAACACAGGAGGGTAAATAATGCTTTTCTGGACCGA
CTCCAAGGCAAAAGTCAACCAGGTGGCCTCGAGCAATCTGGAGGCTGTTGGAATATGAATAGCGGTAACA
GCTGGGGTATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

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Protein Sequence:

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>RC217229 representing NM_033255
Red=Cloning site Green=Tags(s)

MNTRNRVVNSGLGASPASRPTRDPQDPSGRQGELSPVEDQREGLEAAPKGPSRESVVHAGQRRTSAYTLI
APNINRRNEIQRIAEQELANLEKWKEQNRAKPVHLVPRRLGGSQSETEVRQKQQLQLMQSKYKQKLKREE
SVRIKKEAEEAELQKMKAIQREKSNKLEEKKRLQENLRREAFREHQQYKTAEFLSKLNTESPDRSACQSA
VCGPQSSTWARSWAYRDSLKAEENRKLQKMKDEQHQKSELLELKRQQQEQERAKIHQTEHRRVNNAFLDR
LQGKSQPGGLEQSGGCWNMNSGNSWGI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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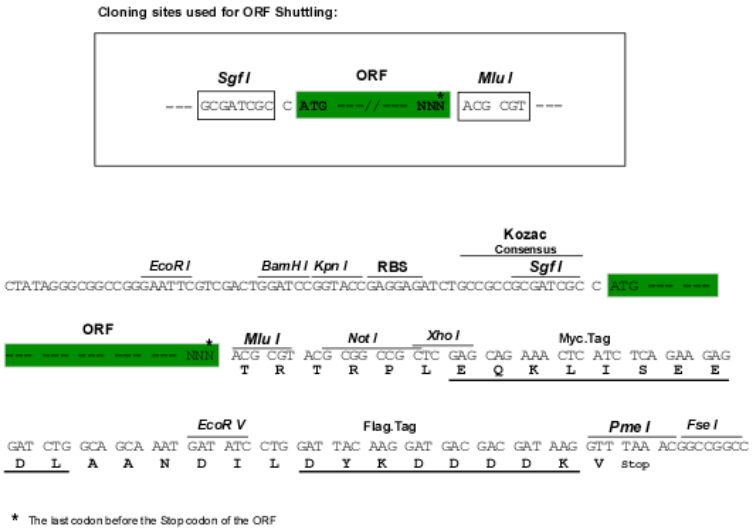
Chromatograms: https://cdn.origene.com/chromatograms/mk6486_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033255

ORF Size: 921 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).

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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_033255.5

RefSeq Size: 1529 bp

RefSeq ORF: 924 bp

Locus ID: 94240

UniProt ID: Q96J88

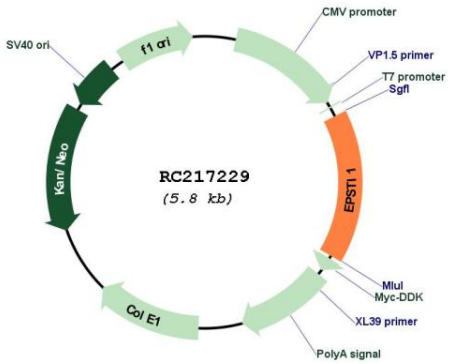
Cytogenetics: 13q14.11

Protein Families: Transmembrane

MW: 35.3 kDa

Gene Summary: The protein encoded by this gene has been shown to promote tumor invasion and metastasis in some invasive cancer cells when overexpressed. Expression of this gene has been shown to be upregulated by direct binding of the Kruppel like factor 8 protein to promoter sequences. The translated protein interacts with the amino terminal region of the valosin containing protein gene product, resulting in the nuclear translocation of the nuclear factor kappa B subunit 1 gene product, and activation of target genes. Overexpression of this gene has been observed in some breast cancers and in some individuals with systemic lupus erythematosus (SLE). [provided by RefSeq, Sep 2016]

Product images:



Circular map for RC217229

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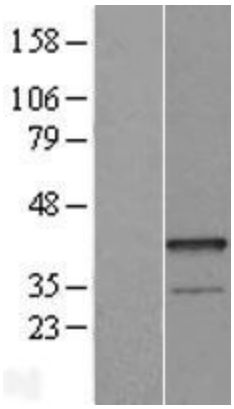
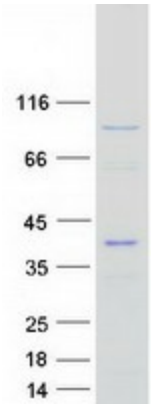


Western blot validation of overexpression lysate (Cat# [LY409659]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217229 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EPSTI1 protein (Cat# [TP317229]). The protein was produced from HEK293T cells transfected with EPSTI1 cDNA clone (Cat# RC217229) using MegaTran 2.0 (Cat# [TT210002]).

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