

Product datasheet for **RC230375**

Cortactin (CTTN) (NM_001184740) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cortactin (CTTN) (NM_001184740) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CTTN
Synonyms:	EMS1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RC230375 representing NM_001184740
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGAAAGCTTCAGCAGGCCACGCTGTGTCCATCGCCAGGATGACGCGGGGGCCGATGACTGGGAGA
CCGACCCGTGATTTGTGAATGATGTGAGTGAGAAGGAGCAAAGATGGGGTGCCAAGACGGTGCAGGGCTC
CGGGCACCAGGAGCATATCAACATACACAAGCTGAGGGAGAATGTCTTTCAAGAGCATCAGACCCCTTAAG
GAGAAGGAACTTGAAACAGGACAAAAGCTTCCCATGGCTATGGAGGAAATTTGGTGTGGAACAAGACC
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GGTCCGTGGCTTCGGAGGCAAGTTTGGTGTCCAGATGGACAGAGTTGATCAGTCTGCTGTAGGCTTTGAA
TACCAGGGGAAGACTGAGAAGCATGCCTCCAGAAAGACTACTCCAGTGGTTTTGGCGGCAAGTATGGCG
TGCAGGCCGACCGAGTAGACAAGAGCGCGGTGGGCTTCGACTACCAGGGCAAGACGGAGAAGCACGAGTC
ACAGAGAGATTACTCAAAGTTTTGGCGGCAAAACGCGTATCGACAAGGACAAAGTGGATAAGAGCGCC
GTTGGCTTTGAGTATCAAGGCAAACGGAGAAGCACGAGTCCCAGAAAGACTATGTGAAAGGGTTTTGGAG
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CAGGAAGGACTGTCCCAGACGAGGGCTTCTCTAGAGTCTCACTGCTGGGGAGGAGAGGACTGGGCCTG
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CCCCTGTCAGTCAGGTGGGCGGTGTCTTTCCAGAAGGTCACGTGGAATGTCTCGGGACTTGGGT
CCGGAGTGCCCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >RC230375 representing NM_001184740
 Red=Cloning site Green=Tags(s)

MWKASAGHAVSIAQDDAGADDWETDPDFVNDVSEKEQRWGAKTVQGSQHGEHINIHKLRENVFQEHQTLK
 EKELETGPKASHGYGGKFGVEQDRMDKSAVGHEYQSKLSKHCSQVDSVRGFGGKFGVQMDRVDQSAVGFE
 YQGKTEKHASQKDYSSGFGGKYGVQADRVDKSAVGFQYQKTEKHESQRDYSKGFGGKYGIDKDKVDKSA
 VGFYQKTEKHESQKDYVKGFGGKFGVQTDKCALGWDHQEKLQLHESQKDYSGFGGKYGVQKDRM
 DKNASTFEDVTQVSSAYQKTVPEAVTSKTSNIRANFENLAKEKEQEDRRKAEAEARAQRMAKERQEQEEA
 RRKLEEQARAKTQTPVSPAPQPTTEERLPSSPVYEDAASFKAELSYRGPVSGTEPEPVYSMEAADYREAS
 SQQGLAYATEAVYESAEAPGHYPAEDSTYDEYENDLGITAVALYDYQAAGDDEISFDPDDIITNIEMIDD
 GWWRGVCKGRFRELAFSCVRVALVPIKCSRDLPGQARGLRSALWRVGRKDCPRRGASSRVSLLGRRGLGL
 MEVNPESHPEHRSCHVRWEICLCHTVTARRIRKLI SFLRSREAGVPVSCSQVGGVVSFQKVTWKCLGTWV
 PECP

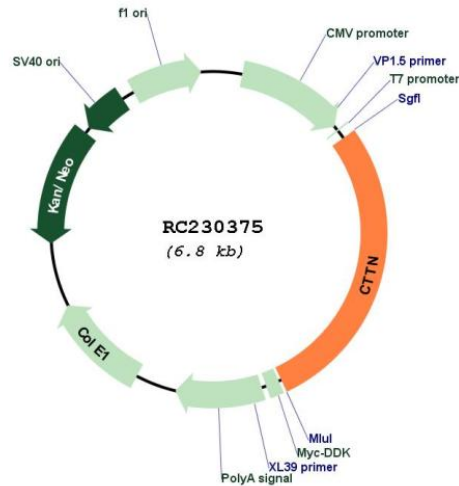
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001184740

ORF Size: 1902 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_001184740.1](#), [NP_001171669.1](#)

RefSeq ORF:	1905 bp
Locus ID:	2017
UniProt ID:	<u>Q14247</u>
Cytogenetics:	11q13.3
Protein Families:	Druggable Genome
Protein Pathways:	Pathogenic Escherichia coli infection, Tight junction
MW:	71.4 kDa
Gene Summary:	<p>This gene is overexpressed in breast cancer and squamous cell carcinomas of the head and neck. The encoded protein is localized in the cytoplasm and in areas of the cell-substratum contacts. This gene has two roles: (1) regulating the interactions between components of adherens-type junctions and (2) organizing the cytoskeleton and cell adhesion structures of epithelia and carcinoma cells. During apoptosis, the encoded protein is degraded in a caspase-dependent manner. The aberrant regulation of this gene contributes to tumor cell invasion and metastasis. Three splice variants that encode different isoforms have been identified for this gene. [provided by RefSeq, May 2010]</p>