

Product datasheet for **SC313961**

Cortactin (CTTN) (NM_005231) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cortactin (CTTN) (NM_005231) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cortactin
Synonyms:	EMS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC313961 representing NM_005231.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGTGGAAGCTTCAGCAGGCCACGCTGTGTCCATCGCCAGGATGACGCGGGGGCCGATGACTGGGAG
ACCGACCCTGATTTTGTGAATGATGTGAGTGAGAAGGAGCAAAGATGGGGTGCCAAGACGGTGCAGGGC
TCCGGGCACCAGGAGCATATCAACATACACAAGCTGAGGGAGAATGTCTTTCAAGAGCATCAGACCCTT
AAGGAGAAGGAACTTGAACAGGACAAAAGCTTCCCATGGCTATGGAGGAAATTTGGTGTGGAACAA
GACCGAATGGATAAGTCAGCTGTCGGCCACGAATATCAGTCGAAACTTTCCAAGCACTGCTCGCAGGTG
GACTCGGTCCGTGGCTTCGGAGGCAAGTTTGGTGTCCAGATGGACAGAGTTGATCAGTCTGCTGTAGGC
TTTGAATACCAGGGGAAGACTGAGAAGCATGCCTCCAGAAAGACTACTCCAGTGGTTTTGGCGGCAAG
TATGGCGTGCAGGCCGACCGAGTAGACAAGAGCGCGGTGGCTTCGACTACCAGGGCAAGACGGAGAAG
CAGGAGTACAGAGAGATTACTCAAAGTTTCGGCGGCAAATACGGTATCGACAAGGACAAAGTGGAT
AAGAGCGCGTTGGCTTTGAGTATCAAGGCAAAACGGAGAAGCAGAGTCCAGAAAGACTATGTGAAA
GGTTTTGGAGGAAATTTGGTGTGACAGACAGACAGACAAGACAATGTGCCCTTGGCTGGGATCACCAG
GAGAAATTGCAGCTGCATGAATCCAAAAAGATTATAAGACTGGTTTTGGAGGCAAAATTCGGTGTTCAG
TCGGAGAGGCAGGACTCCGCTGCTGTGGGGTTTGATTACAAGGAGAAGCTGGCCAAGCACAGTCCAG
CAAGACTACTCCAAGGATTCGGCGGGAAGTATGGGGTGCAGAAGGATCGGATGGATAAGAATGCGTCA
ACCTTTGAGGATGTCACCCAGGTGTCCTCTGCCTACCAGAAGACAGTACCTGTGCAAGCTGTGACCAGC
AAAACAAGTAACATCAGAGCTAACTTTGAAAACCTCGCTAAGGAGAAAGAGCAGGAGGACAGGCGGAAG
GCGGAGGCGGAGAGGCCAGCGGATGGCCAAGGAGCGGCAGGAGCAGGAAGAGGCCAGGAGGAAGCTG
GAGGAGCAAGCCAGAGCCAAAACGAAAACGCCCTGTGTGCGCCGACCTCAGCCAACCGAGGAGAGG
CTGCCCTCGAGCCCCGTCTATGAGGATGCGGCTTCCTTCAAGGCAGAGCTGAGCTACAGAGGCCCTGTG
AGTGGGACGAGCGGAGCCCGTGTACAGCATGGAGGCCGCTGACTACCGAGAGGCCAGCAGCCAGCAG
GGCCTGGCCTATGCCACAGAGGCTGTCTATGAAAGCGCAGAGGCCCGGGCCACTATCCCGCAGAGGAC
AGCACCTACGATGAGTACGAGAACGATCTGGGGATCACAGCCGTCGCCCTGTACGACTACCAGGCTGCG
GGCGATGATGAGATCTCATTGACCCTGATGACATCATACCAACATCGAGATGATTGACGACGGCTGG
TGGCGCGGGTGTCAAGGGCCGATACGGGCTCTCCAGCCAATATGTGGAGCTGCGGCAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_005231
- Insert Size:** 1653 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_005231.3](#)

RefSeq Size: 3319 bp

RefSeq ORF: 1653 bp

Locus ID: 2017

UniProt ID: [Q14247](#)

Cytogenetics: 11q13.3

Domains: SH3, HS1_rep

Protein Families: Druggable Genome

Protein Pathways: Pathogenic Escherichia coli infection, Tight junction

MW: 61.6 kDa

Gene Summary: 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]
Transcript Variant: This variant (1) is the longest transcript.