

## Product datasheet for **SC329013**

### Cortactin (CTTN) (NM\_001184740) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cortactin (CTTN) (NM_001184740) Human Untagged Clone
Tag:	Tag Free
Symbol:	CTTN
Synonyms:	EMS1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001184740, the custom clone sequence may differ by one or more nucleotides

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ATGTGGAAAGCTTCAGCAGGCCACGCTGTGTCCATCGCCAGGATGACGCGGGGGCCGAT
GACTGGGAGACCGACCCTGATTTTGTGAATGATGTGAGTGAGAAGGAGCAAAGATGGGGT
GCCAAGACGGTGCAGGGCTCCGGGCACCAGGAGCATATCAACATACACAAGCTGAGGGAG
AATGTCTTTCAAGAGCATCAGACCCTTAAGGAGAAGGAACTTGAAACAGGACCAAAAGCT
TCCCATTGGCTATGGAGGAAAATTTGGTGTGGAACAAGACCGAATGGATAAGTCAGCTGTC
GGCCACGAATATCAGTCGAAACTTTCCAAGCACTGCTCGCAGGTGGACTCGGTCCGTGGC
TTCGGAGGCAAGTTTGGTGTCCAGATGGACAGAGTTGATCAGTCTGCTGTAGGCTTTGAA
TACCAGGGGAAGACTGAGAAGCATGCCTCCAGAAAGACTACTCCAGTGGTTTTGGCGGC
AAGTATGGCGTGCAGGCCGACCGAGTAGACAAGAGCGCGTGGGCTTCGACTACCAGGGC
AAGACGGAGAAGCAGGATCACAGAGAGATTACTCAAAGTTTTCGCGGCAAAATACGGT
ATCGACAAGGACAAAGTGGATAAGAGCGCCGTTGGCTTTGAGTATCAAGGCAAAACGGAG
AAGCACGAGTCCCAGAAAGACTATGTGAAAGGTTTTGGAGAAAAATTTGGTGTGCAGACA
GACAGACAAGACAAATGTGCCCTGGCTGGGATCACCAGGAGAAATTGCAGCTGCATGAA
TCCCAAAAAGACTACTCAAAGGATTTCGGCGGGAAGTATGGGGTGCAGAAGGATCGGATG
GATAAGAATGCGTCAACCTTTGAGGATGTCACCCAGGTGCTCTGCCTACCAGAAGACA
GTACCTGTGCAAGCTGTGACCAGCAAAACAAGTAAACATCAGAGCTAACTTTGAAAACCTC
GCTAAGGAGAAAGAGCAGGAGGACAGGCCGGAAGGCGGAGGCGGAGAGAGCCAGCGGATG
GCCAAGGAGCGGCAGGAGCAGGAAGAGGCCAGGAGGAAGCTGGAGGAGCAAGCCAGAGCC
AAAACGCAAAACGCCCCCTGTGTCGCCCCACCTCAGCCAACCGAGGAGAGGCTGCCCTCG
AGCCCCGTCTATGAGGATGCGGCTTCCTTCAAGGCAGAGCTGAGCTACAGAGGCCCTGTG
AGTGGGACGGAGCCGGAGCCCGTGTACAGCATGGAGGCCGTGACTACCGAGAGGCCAGC
AGCCAGCAGGGCCTGGCCTATGCCACAGAGGCTGTCTATGAAAGCGCAGAGGCCCCGGGC
CACTATCCCGCAGAGGACAGCACCTACGATGAGTACGAGAACGATCTGGGGATCACAGCC
GTCGCCCTGTACGACTACCAGGCTGCGGGCGATGATGAGATCTCATTGACCCTGATGAC
ATCATACCAACATCGAGATGATTGACGACGGCTGGTGGCGGGGTGTGCAAGGGCCGC
TTCAGGGAGCTCGCATTCTTTGTGTTCTGTTGCCCTCGTGCCCATCAAGTGCAGTCGG
GACCTCCCAGGACAAGCAGGAGGCTCAGGTCGGCCCTGTGGCGGTAGGCAGGAAGGAC
TGTCACAGACGAGGGCTTCTCTAGAGTCTACTGCTGGGAGGAGAGGACTGGGCCTG
ATGGAAGTTAACCAGGAGCTAAGTACCCAGAGCACAGGAGCTGCCATGTCAGATGGAA
ATCTGCCTATGTATACCGTACAGCCCGAGGATCAGGAAACTCATCTCCTTCCCTGAGG
AGCCGGGAGGCTGGACCAAGTCCCGTCTGTCAGTACGGTGGGCGGTGTGTCTTTCCAGAAG
GTCACGTGGAAATGTCTCGGGACTTGGGTCCCGGAGTGCCCGTGA

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**Restriction Sites:** Please inquire

**ACCN:** NM\_001184740

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001184740.1</a></u> , <u><a href="#">NP_001171669.1</a></u>
<b>RefSeq Size:</b>	2325 bp
<b>RefSeq ORF:</b>	1905 bp
<b>Locus ID:</b>	2017
<b>UniProt ID:</b>	<u><a href="#">Q14247</a></u>
<b>Cytogenetics:</b>	11q13.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Pathogenic Escherichia coli infection, Tight junction
<b>Gene Summary:</b>	<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> <p>Transcript Variant: This variant (3) uses different splice sites in the 3' coding region, which changes reading frame and the termination stop codon, compared to variant 1. The resulting protein (isoform c) has a longer and distinct C-terminus when it is compared to isoform a.</p>