

Product datasheet for **SC124848**

Cortactin (CTTN) (NM_138565) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cortactin (CTTN) (NM_138565) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cortactin
Synonyms:	EMS1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_138565, the custom clone sequence may differ by one or more nucleotides

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ATGTGAAAGCTTCAGCAGGCCACGCTGTGTCCATCGCCCAGGATGACGCGGGGGCCGATGACTGGGAGA
CCGACCCGTGATTTTGTGAATGATGTGAGTGAGAAGGAGCAAAGATGGGGTGCCAAGACGGTGCAGGGCTC
CGGGCACCAGGAGCATATCAACATACACAAGCTGAGGGAGAATGTCTTTCAAGAGCATCAGACCCTTAAG
GAGAAGGAACTTGAAACAGGACCAAAAGCTTCCCATGGCTATGGAGGAAATTTGGTGTGGAACAAGACC
GAATGGATAAGTCAGCTGTCGGCCACGAATATCAGTCGAAACTTTCCAAGCACTGCTCGCAGGTGGACTC
GGTCCGTGGCTTCGGAGGCAAGTTTGGTGTCCAGATGGACAGAGTTGATCAGTCTGCTGTAGGCTTTGAA
TACCAGGGGAAGACTGAGAAGCATGCCTCCCAGAAAGACTACTCCAGTGGTTTTGGCGGCAAGTATGGCG
TGCAGGCCGACCGAGTAGACAAGAGCGCGGTGGGCTTCGACTACCAGGGCAAGACGGAGAAGCACGAGTC
ACAGAGAGATTACTCAAAGTTTCGGCGGCAAAACGGTATCGACAAGGACAAAGTGGATAAGAGCGCC
GTTGGCTTTGAGTATCAAGGCAAAACGGAGAAGCACGAGTCCCAGAAAGACTATGTGAAAGGTTTGGAG
GAAAATTTGGTGTGCAGACAGACAGACAAGACAATGTGCCCTTGGCTGGGATCACCAGGAGAAATTGCA
GCTGCATGAATCCAAAAAGACTACTCAAAGGATTTCGGCGGAAAGTATGGGGTGCAAGAAGGATCGGATG
GATAAGAATGCGTCAACCTTTGAGGATGTCACCCAGGTGTCTCTGCCTACCAGAAGACAGTACCTGTGC
AAGCTGTGACCAGCAAAACAAGTAACATCAGAGCTAATTTGAAAACCTCGCTAAGGAGAAAAGAGCAGGA
GGACAGGCGGAAGGCGGAGGCGGAGAGAGCCAGCGGATGGCCAAGGAGCGGCAGGAGCAGGAAGAGGGCC
AGGAGGAAGCTGGAGGAGCAAGCCAGAGCCAAAACGCAACGCCCCCTGTGTGCCCCGACCTCAGCCAA
CCGAGGAGAGGCTGCCCTCGAGCCCCGTCTATGAGGATGCGGCTTCTTCAAGGCAGAGCTGAGCTACAG
AGCCCCGTGAGTGGGACGGAGCCGGAGCCCGTGTACAGCATGGAGGCCGCTGACTACCGAGAGGCCAGC
AGCCAGCAGGGCCTGGCCTATGCCACAGAGGCTGTCTATGAAAGCGCAGAGGCCCGCCGACTATCCCCG
CAGAGGACAGCACCTACGATGAGTACGAGAACGATCTGGGGATCACAGCGCTCGCCCTGTACGACTACCA
GGCTGCGGGCGATGATGAGATCTCATTTGACCCTGATGACATCATCACC AACATCGAGATGATTGACGAC
GGCTGGTGGCGGGGTGTGCAAGGGCCGTACGGGCTTCCCAGCAACTATGTGGAGCTGCGGCAGT
AG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_138565 unedited

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NGGTTTCAGATTTTGTAAATACGACTTACTATAGNNGCGGGCCGCGNNAATTCGGCACGAA
GGCGGNAATCCAGGGGCCGACCCGGGCCGACCGACCCAGGCGGCGACGGAATCAGTCC
CCAATGCCTGGAAATTCCTCATTGGATTACTGTGTTTTAAACAGAATTTTCGTGAACAGCC
TTTTATCTCCAAGCGAAAGAAAGATGTGGAAAGCTTCAGCAGGCCACGCTGTGTCCATC
GCCCAGGATGACGCGGGGGCCGATGACTGGGAGACCGACCCTGATTTTGTGAATGATGTG
AGTGAGAAGGAGCAAAGATGGGGTGCCAAGACGGTGCAGGGCTCCGGGCACCAGGAGCAT
ATCAACATACACAAGCTGAGGGAGAATGTCTTTCAAGAGCATCAGACCCTTAAGGAGAAG
GAACTTGAAACAGGACCAAAAGCTTCCCATGGCTATGGAGGAAATTTGGTGTGGAACAA
GACCGAATGGATAAGTCAGCTGTCGGCCACGAATATCAGTCGAAACTTTCCAAGCACTGC
TCGCAGGTGGACTCGGTCCGTGGCTTCGGAGGCAAGTTTGGTGTCCAGATGGACAGAGTT
GATCAGTCTGCTGATGGCTNTGAATACCAGGGGAAGACTGAGAAGCATGCCTCCCAGAAA
GACTACTCCAGTGGTTTTGGCGGCAAGTATGGCGTGCAGGCCGACCGAGTAGACAAGAGC
GCGGTGGGCTTCGACTACCAGGGGCAGACGGAGAAGCACGAGTACAGAGAGATTACTCN
CAAGGGTTCNGCGGGCAATACCGTATCGACAGGNACCAAGTGGATAGAGCGCCGTGGC
TTTGAGTATCAAGGCAAAACGGNAGAGCACGAGTCCCAGAAAGACTATGTGAAAAGGGTT
TGGNAGANAATTTGTGTGCAGACAGACCAGACAGACAATGTGCCCTTGCCTGGNATCACA
GNAGAAATGCAGCTGCT
    
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Restriction Sites:

NotI-NotI

ACCN:

NM_138565

Insert Size:

3000 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:	<ol style="list-style-type: none">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_138565.1 , NP_612632.1
RefSeq Size:	3176 bp
RefSeq ORF:	1542 bp
Locus ID:	2017
UniProt ID:	Q14247
Cytogenetics:	11q13.3
Protein Families:	Druggable Genome
Protein Pathways:	Pathogenic Escherichia coli infection, Tight junction
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> <p>Transcript Variant: This variant (2) lacks an internal segment of sequence, compared to variant 1. The resulting protein (isoform b) has the same N- and C- termini but is shorter when it is compared to isoform a.</p>