

## Product datasheet for **RG230375**

### 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:	TurboGFP
Symbol:	CTTN
Synonyms:	EMS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG230375 representing NM\_001184740  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTGAAAGCTTCAGCAGGCCACGCTGTGTCCATCGCCAGGATGACGCGGGGGCCGATGACTGGGAGA  
 CCGACCCGTGATTTGTGAATGATGTGAGTGAGAAGGAGCAAAGATGGGGTGCCAAGACGGTGCAGGGCTC  
 CGGGCACCAGGAGCATATCAACATACACAAGCTGAGGGAGAATGTCTTTCAAGAGCATCAGACCCCTAAG  
 GAGAAGGAACTTGAAACAGGACAAAAGCTTCCCATGGCTATGGAGGAAATTTGGTGTGGAACAAGACC  
 GAATGGATAAGTCAGCTGTGGCCACGAATATCAGTCGAAACTTTCCAAGCACTGCTCGCAGGTGGACTC  
 GGTCCGTGGCTTCGGAGGCAAGTTTGGTGTCCAGATGGACAGAGTTGATCAGTCTGCTGTAGGCTTTGAA  
 TACCAGGGGAAGACTGAGAAGCATGCCTCCAGAAAGACTACTCCAGTGGTTTTGGCGGCAAGTATGGCG  
 TGCAGGCCGACCGAGTAGACAAGAGCGCGGTGGGCTTCGACTACCAGGGCAAGACGGAGAAGCACGAGTC  
 ACAGAGAGATTACTCAAAGTTTTGGCGGCAAAATACGGTATCGACAAGGACAAAGTGGATAAGAGCGCC  
 GTTGGCTTTGAGTATCAAGGCAAACCGAGAAGCACGAGTCCCAGAAAGACTATGTGAAAGGGTTTTGGAG  
 GAAAATTTGGTGTGCAGACAGACAGACAAGACAATGTGCCCTTGGCTGGGATCACCAGGAGAAATTGCA  
 GCTGCATGAATCCAAAAAGACTACTCCAAAGGATTCGGCGGGAAGTATGGGGTGCAAGAGGATCGGATG  
 GATAAGAATGCGTCAACCTTTGAGGATGTACCCAGGTGTCTCTGCCTACCAGAAGACAGTACCTGTGC  
 AAGCTGTGACCAGCAAAACAAGTAAATCAGAGCTAACTTTGAAAACCTCGTAAGGAGAAAAGAGCAGGA  
 GGACAGGCCGAAGGGCGGAGCGGAGAGAGCCAGCGGATGGCCAAGGAGCGGCAGGAGCAGGAAGAGGCC  
 AGGAGGAAGCTGGAGGAGCAAGCCAGAGCCAAAACGCAACGCCCTGTGTGCGCCGACCTCAGCCAA  
 CCGAGGAGAGGCTGCCCTCGAGCCCGTCTATGAGGATGCGGCTTCTTCAAGGCAGAGCTGAGCTACAG  
 AGGCCCTGTGAGTGGGACGGAGCCGAGCCGTGTACAGCATGGAGGCCGCTGACTACCGAGAGGCCAGC  
 AGCCAGCAGGGCCTGGCCTATGCCACAGAGGCTGTCTATGAAAGCGCAGAGGCCCGGGCCACTATCCCG  
 CAGAGGACAGCACCTACGATGAGTACGAGAACGATCTGGGGATCAGAGCCGTCGCCCTGTACGACTACCA  
 GGCTGCGGGCGATGATGAGATCTCATTTGACCCTGATGACATCATACCAACATCGAGATGATTGACGAC  
 GGCTGGTGGCGGGGTGTGCAAGGGCCGCTTCAGGGAGCTCGCATTCTTGTGTTCTGTGTTGCCCTCG  
 TGCCCATCAAGTGCAGTCGGGACCTCCCAGGACAAGCACGAGGCCTCAGGTGGCCCTGTGGCGGGTAGG  
 CAGGAAGGACTGTCCAGACGAGGGCTTCTCTAGAGTCTCACTGCTGGGGAGGAGGACTGGGCCTG  
 ATGGAAGTTAACC CGGAGCTAAGTACCCAGAGCACAGGAGCTGCCATGTCAGATGGGAAATCTGCCTAT  
 GTCATACCGTGACAGCCGAGGATCAGGAAACTCATCTCTTCTGAGGAGCCGGGAGGCTGGACCAAGT  
 CCCGTCGTGCAGTCAGGTGGGCGGTGTGCTTTCCAGAAGGTCACGTGGAATGTCTCGGGACTTGGGT  
 CCGGAGTGCCCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG230375 representing NM\_001184740  
 Red=Cloning site Green=Tags(s)

MWKASAGHAVSIAQDDAGADDWETDPDFVNDVSEKEQRWGAKTQVQSGHQEHINIHKLRENVFQEHQTLK  
 EKELETGPKASHGYGGKFGVEQDRMDKSAVGHEYQSKLSKHCSQVDSVRGFGGKFGVQMDRVDQSAVGFE  
 YQKTEKHASQKDYSSGFGGKYGVQADRVKSAVGFYQKTEKHESQRDYSKFGGKYIDKDKVDKSA  
 VGFYQKTEKHESQKDYVKGFGGKFGVQTDQRQKCALGWDHQEKLQLHESQKDYSGFGGKYGVQKDRM  
 DKNASTFEDVTQVSSAYQKTPVEAVTSKTSNIRANFENLAKEKEQEDRRKAEAEARAQMAKERQEQEEA  
 RRKLEEQARAKTQTPPVSPAPQPTTEERLPSSPVYEDAASFKAELSYRGPVSGTEPEPVYSMEAADYREAS  
 SQQLAYATEAVYESAEAPGHYPEDSTYDEYENDLGITAVALYDYQAAGDDEISFPDDDIITNIEMIDD  
 GWWRGVCKGRFRELAFSCVRVALVPIKCSRDLPGQARGLRSALWRVGRKDCPRRGASSRVSLGRRGLGL  
 MEVNPESHPEHRSCHVRWEICLCHTVTARRIRKLISFLRSREAGVPVSCSQVGGVVFQKVTWKCLGTWV  
 PECP

**TRTRPLE** - GFP Tag - V

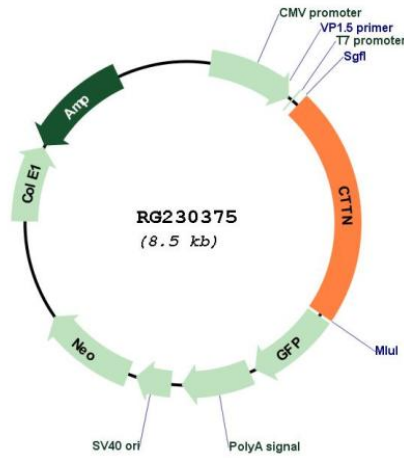
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_001184740

ORF Size: 1902 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>	<a href="#">NM_001184740.2</a>
<b>RefSeq Size:</b>	2325 bp
<b>RefSeq ORF:</b>	1905 bp
<b>Locus ID:</b>	2017
<b>UniProt ID:</b>	<a href="#">Q14247</a>
<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>	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]