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Product datasheet for RG201111

Cortactin (CTTN) (NM_138565) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cortactin (CTTN) (NM_138565) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cortactin
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:

>RG201111 representing NM_138565
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGAAAGCTTCAGCAGGCCACGCTGTGTCCATCGCCCAGGATGACGCGGGGGCCGATGACTGGGAGA
CCGACCCTGATTTTGTGAATGATGTGAGTGAGAAGGAGCAAAGATGGGGTGCCAAGACGGTGCAGGGCTC
CGGGCACCAGGAGCATATCAACATACACAAGCTGAGGGAGAATGTCTTTCAAGAGCATCAGACCCTTAAG
GAGAAGGAACTTGAAACAGGACCAAAAGCTTCCCATGGCTATGGAGGGAAATTTGGTGTGGAACAAGACC
GAATGGATAAGTCAGCTGTCGGCCACGAATATCAGTCGAAACTTTCCAAGCACTGCTCGCAGGTGGACTC
GGTCCGTGGCTTCGGAGGCAAGTTTGGTGTCCAGATGGACAGAGTTGATCAGTCTGCTGTAGGCTTTGAA
TACCAGGGGAAGACTGAGAAGCATGCCTCCCAGAAAGACTACTCCAGTGGTTTTGGCGGCAAGTATGGCG
TGCAGGCCGACCGAGTAGACAAGAGCGCGGTGGGCTTCGACTACCAGGGCAAGACGGAGAAGCACGAGTC
ACAGAGAGATTACTCCAAAGGTTTCGGCGGCAAATACGGTATCGACAAGGACAAAGTGGATAAGAGCGCC
GTTGGCTTTGAGTATCAAGGCAAAACGGAGAAGCACGAGTCCCAGAAAGACTATGTGAAAGGGTTTGGAG
GAAAATTTGGTGTGCAGACAGACAGACAAGACAAATGTGCCCTTGGCTGGGATCACCAGGAGAAATTGCA
GCTGCATGAATCCCAAAAAGACTACTCCAAAGGATTCGGCGGGAAGTATGGGGTGCAGAAGGATCGGATG
GATAAGAATGCGTCAACCTTTGAGGATGTCACCCAGGTGTCCTCTGCCTACCAGAAGACAGTACCTGTCG
AAGCTGTGACCAGCAAAACAAGTAACATCAGAGCTAACTTTGAAAACCTCGCTAAGGAGAAAGAGCAGGA
GGACAGGCGGAAGGCGGAGGCGGAGAGAGCCCAGCGGATGGCCAAGGAGCGGCAGGAGCAGGAAGAGGCC
AGGAGGAAGCTGGAGGAGCAAGCCAGAGCCAAAACGCAAACGCCCCCTGTGTCGCCCGCACCTCAGCCAA
CCGAGGAGAGGCTGCCCTCGAGCCCCGTCTATGAGGATGCGGCTTCCTTCAAGGCAGAGCTGAGCTACAG
AGGCCCTGTGAGTGGGACGGAGCCGGAGCCCGTGTACAGCATGGAGGCCGCTGACTACCGAGAGGCCAGC
AGCCAGCAGGGCCTGGCCTATGCCACAGAGGCTGTCTATGAAAGCGCAGAGGCCCCGGGCCACTATCCCG
CAGAGGACAGCACCTATGATGAGTACGAGAACGATCTGGGGATCACAGCCGTCGCCCTGTACGACTACCA
GGCTGCGGGCGATGATGAGATCTCATTTGACCCTGATGACATCATCACCAACATCGAGATGATTGACGAC
GGCTGGTGGCGCGGGGTGTGCAAGGGCCGGTACGGGCTCTTCCCAGCCAACTATGTGGAGCTGCGGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201111 representing NM_138565
Red=Cloning site Green=Tags(s)

MWKASAGHAVSIAQDDAGADDWETDPDFVNDVSEKEQRWGAKTVQGSGHQEHINIHKLRENVFQEHQTLK
EKELETGPKASHGYGGKFGVEQDRMDKSAVGHEYQSKLSKHCSQVDSVRGFGGKFGVQMDRVDQSAVGFE
YQGKTEKHASQKDYSSGFGGKYGVQADRVDKSAVGFDYQGKTEKHESQRDYSKGFGGKYGIDKDKVDKSA
VGFEYQGKTEKHESQKDYVKGFGGKFGVQTDRQDKCALGWDHQEKLQLHESQKDYSKGFGGKYGVQKDRM
DKNASTFEDVTQVSSAYQKTVPVEAVTSKTSNIRANFENLAKEKEQEDRRKAEAERAQRMAKERQEQEEA
RRKLEEQARAKTQTPPVSPAPQPTEERLPSSPVYEDAASFKAELSYRGPVSGTEPEPVYSMEAADYREAS
SQQGLAYATEAVYESAEAPGHYPAEDSTYDEYENDLGITAVALYDYQAAGDDEISFDPDDIITNIEMIDD
GWWRGVCKGRYGLFPANYVELRQ

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

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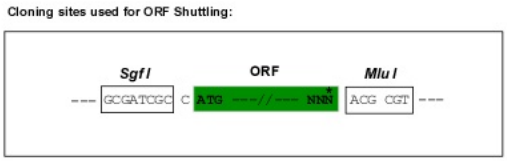
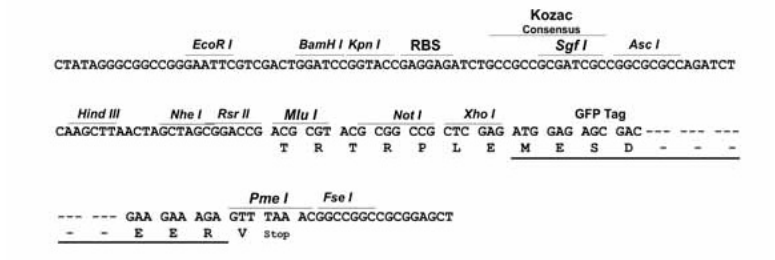
Cloning Scheme:





ACCN:	NM_138565
ORF Size:	1539 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_138565.1, NP_612632.1
RefSeq Size:	3176 bp
RefSeq ORF:	1542 bp
Locus ID:	2017
UniProt ID:	Q14247
Cytogenetics:	11q13.3

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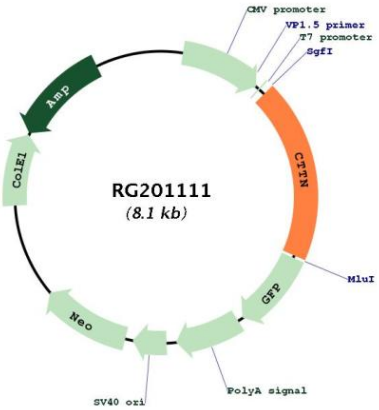
Protein Families: Druggable Genome

Protein Pathways: Pathogenic Escherichia coli infection, Tight junction

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]

Product images:



Circular map for RG201111

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