

Product datasheet for **SC310186**

CRTAC1 (NM_018058) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	CRTAC1
Synonyms:	ASPIC; ASPIC1; CEP-68; CEP68; LOTUS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF: >SC310186 representing NM_018058.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTCCGAGCGCTGACCCCGCATGTCCAGGATGTTACCGTTCTCTGCTGCTCTGTTTCTGCC
ATCACTGAGGGTCCCAGCGGCTGAACCATGTTCACTGCAGTCACCAACTCAGTTCTGCCTCTGAC
TATGACAGTAATCCACCCAGCTCAACTATGGTGTGGCAGTTACTGATGTGGACCATGATGGGGACTTT
GAGATCGTCGTGGCGGGTACAATGGACCAACCTGGTTCTGAAGTATGACCGGGCCAGAAGCGGCTG
GTGAACATCGCGGTTCGATGAGCGCAGCTCACCCTACTACGCGCTGCGGGACCGGCAGGGGAACGCCATC
GGGGTCACAGCCTGCGACATCGACGGGACGGCCGGGAGGAGATCTACTTCCTCAACACCAATAATGCC
TTCTCGGGGTGGCCACGTACACCGACAAGTTGTTCAAGTTCGCAATAACCGGTGGGAAGACATCTG
AGCGATGAGGTCAACGTGGCCGTGGTGTGGCAGCCTCTTGCCGACGCTCTGTGGCCTGTGTGGAC
AGAAAGGGCTCTGGACGCTACTCTATCTACATTGCCAATTACGCCTACGGTAATGTGGGCCCTGATGCC
CTCATTGAAATGGACCTGAGGCCAGTGACCTCTCCCGGGCATTCTGGCGCTCAGAGATGTGGCTGCT
GAGGCTGGGGTCAGCAATATACAGGGGGCCGAGGCGTCAGCGTGGGCCCCATCCTCAGCAGAGTGCC
TCGGATATCTTCTGCGACAATGAGAATGGGCCTAACTTCCTTTCCACAACCGGGCGATGGCACCTTT
GTGGACGCTGCGGCCAGTGCTGGTGTGGACGACCCCCACGACATGGGCGAGGTGTGCGCCTGGCTGAC
TTCAACCGTGATGGCAAAGTGGACATCGTCTATGGCACTGGAATGGCCCCACCGCCTCTATCTGCAA
ATGAGCACCATGGGAAGGTCCGCTTCCGGGACATCGCCTCACCAAGTTCTCCATGCCCTCCCCTGTC
CGCACGGTCATCACCGCCGACTTTGACAATGACCAGGAGCTGGAGATCTTCTTCAACAACATTGCCTAC
CGCAGCTCCTCAGCAACCGCCTCTTCCGCGTCATCCGTAGAGAGCACGGAGACCCCTCATCGAGGAG
CTCAATCCCGGCGACGCTTGGAGCCTGAGGGCCGGGACACAGGGGTGTGGTGACCGACTTCGACGGA
GACGGGATGCTGGACCTCATCTTGTCCATGGAGAGTCCATGGCTCAGCCGCTGTCCGTCTTCCGGGGC
AATCAGGGCTTCAACAACAACTGGCTGCGAGTGGTGCCACGACCCGGTTTGGGGCCTTTGCCAGGGGA
GCTAAGGTCGTGCTCTACACCAAGAAGAGTGGGGCCACCTGAGGATCATCGACGGGGGCTCAGGCTAC
CTGTGTGAGATGGAGCCGTCGACACTTTGGCCTGGGAAGGATGAAGCCAGCAGTGTGGAGGTGACG
TGGCCAGATGGCAAGATGGTGAAGCGGAAACGTGGCCAGCGGGGAGATGAACTCAGTGTGGAGATCCTC
TACCCCGGGATGAGGACACACTTCAGGACCCAGCCCCACTGGAGTGTGGCCAAGGATTCTCCAGCAG
GAAAATGGCCATTGCATGGACCAATGAATGCATCCAGTTCCATTCTGTGCCCCTCGAGACAAGCCC
GTATGTGTCAACACCTATGGAAGCTACAGGTGCCGACCAACAAGAAGTGCAGTCGGGGCTACGAGCCC
AACGAGGATGGCAGCCTGCGTGGGACTCTCGGCCAGTCACCGGGCCCCCGCCCCACACCCCCACC
GCTGCTGTGCCACTGCCGCTGCTGCTGCCGCTGCTGGAGTGCCACTGCTGCACCGGTCTCGTAGAT
GGAGATCTCAATCTGGGGTCGGTGGTTAAGGAGAGTGCAGGCCAGCTGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites: SgfI-MluI

ACCN: NM_018058

Insert Size: 1986 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_018058.6</u>
RefSeq Size:	2912 bp
RefSeq ORF:	1986 bp
Locus ID:	55118
UniProt ID:	<u>Q9NQ79</u>
Cytogenetics:	10q24.2
Domains:	FG-GAP
MW:	71.4 kDa
Gene Summary:	This gene encodes a glycosylated extracellular matrix protein that is found in the interterritorial matrix of articular deep zone cartilage. This protein is used as a marker to distinguish chondrocytes from osteoblasts and mesenchymal stem cells in culture. The presence of FG-GAP motifs and an RGD integrin-binding motif suggests that this protein may be involved in cell-cell or cell-matrix interactions. Copy number alterations in this gene have been observed in neurofibromatosis type 1-associated glomus tumors. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2011] Transcript Variant: This variant (1, also known as CRTAC1-A) represents the longer transcript and encodes the longer isoform (A).