

Product datasheet for **SC116307**

CAPZA2 (NM_006136) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAPZA2 (NM_006136) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAPZA2
Synonyms:	CAPPA2; CAPZ
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116307 sequence for NM_006136 edited (data generated by NextGen Sequencing)

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ATGGCGGATCTGGAGGAGCAGTTGTCTGATGAAGAGAAGGTGCGTATAGCAGCAAAATTC
ATCATTTCATGCCCCCTCTGGAGAATTTAATGAGGTTTTCAATGATGTTTCGGTTACTGCTT
AATAATGACAATCTTCTCAGGGAAGGAGCAGCCATGCATTTGCACAGTATAAATTGGAC
CAGTTTACTCCAGTAAAAATTGAAGTTATGAAGATCAGGTATTGATAACAGAACATGGC
GACTTGGGAAATGGAAAGTTTTTGGATCCAAAGAACAGAATCTGTTTTAAATTTGATCAC
TTAAGGAAGGAGGCAACTGATCCAAGACCCTGTGAAGTAGAAAATGCAGTTGAATCATGG
AGAACTTCAGTAGAACTGCTCTGAGAGCTTACGTAAGAAGAACATTACCCGAATGGAGTC
TGCACTGTGTATGGCAAAAAATAGATGGACAGCAAAACCATTATTGCATGCATAGAAAGC
CATCAGTTCCAAGCAAAAAATTTTTGGAATGGTCGTTGGAGGTCAGAATGGAAGTTTACA
ATCACTCCTTCAACCACTCAAGTGGTTGGCATCTTGAAAATTCAGGTTTCATTATTATGAA
GATGGTAAATGTTTCAGCTAGTGAGTCATAAAGATATACAAGATTCCTAACAGTGTCTAAT
GAAGTGCAAAACAGCAAAAGAATTTATAAAGATTGTAGAAGCTGCAGAAAATGAATACCAG
ACTGCCATCAGTGAGAATTATCAGACAATGTCCGACACTACTTTCAAAGCCTTACGTCGA
CAGTTGCCAGTTACACGCACTAAGATTGATTGGAACAAGATCCTTAGCTACAAGATTGGC
AAAGAGATGCAGAATGCATAA

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Clone variation with respect to NM_006136.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006136 unedited <pre> AGCATTTTGTAACTACGACTCACTATAGGGCGGCCGCGAATTCGGCACGGGCGGAAACGGG GAAGTCAGGTGGCCGCTGCCGCCGCCGCCGCGGTTTGTGCCAGAAGGAAGATGGCG GATCTGGAGGAGCAGTTGTCTGATGAAGAGAAGGTGCGTATAGCAGCAAAATTCATCATT CATGCCCTCTCGGAGAAATTTAATGAGGTTTTCAATGATGTTTCGTTACTGCTTAATAAT GACAATCTTCTCAGGGAAGGAGCAGCCCATGCATTTGCACAGTATAACTTGGACCACTTT ACTCCAGTAAAAATGAAGGTTATGAAGATCAGGTATTGATAACAGAACATGGCGACTTG GGAAATGGAAAGTTTTTGGATCCAAAGAACAGAATCTGTTTTAAATTTGATCACTTAAGG AAGGAGGCAACTGATCCAAGACCCTGTGAAGTAGAAAATGCAGTTGAATCATGGAGAACT TCAGTAGAACTGCTCTGAGAGCTTACGTAAAAGAACATTACCCGAATGGAGTCTGCACT GTGTATGGCAAAAAATAGATGGACAGCAAAACCATTATTGCATGCATAGAAAGCCATCAG TTCCAAGCAAAAAATTTTTGGAATGGTCGTTGGAGGTCAGAAATGGAAGTTTACAATCACT CCTTCAACCACTCAAGTGGTTGGCATCTTGAAAATTCAGGTTTATTATTGAAAACGGT AATGTTTCAGCTAGTGAGTCATAAAGATATACAAGATTCCTAACAGTGTCTAATGTAGGG CAAACAGCAAAAGATTTATAAGATTGTAGAACCTGCAGAAAATTGATACCACACTGCCA TCAGTGAGAAATTATTAACATGTCNGACACTATTTCAAAGCCTTCCTTGACTGTTGGCC GTTACACCCACTAAGATNGTTTGTAAACAAGAACCTTCACTCCAATATATGCAAAGAGATC CAAATGA </pre>
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_006136 unedited <pre> ACCGCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTAGTTCAGGATTATAT ATATTACAATTTGCCTTGTATAATACATTTGTGGCTTTATGATAAAAAATACTCAGGGA CATATGGAATTCAGCTGATTTGCGTAAGTGTCAAGAAAAAACATTAAATGCATTTTC TGAAATAAGTATTTTCATTAAATTCAGAAATCTCAAACAGCATTAGACCTTGCCTTGTTT AAAAAAATTTAGTTCAACACTAAGCTAGCTAAATAACCTTCTTGAAAGGTTTAAACACA ATTGATATAGAAAATGCTTCCCTCTAATCTCAACTTTACATAAATGGAACAGGTGAGGA AGAAAAGGTAGACAATTTCTTTAGCAGCATATATGGCTAAATCCATCAACCACCTTAAAC TAGAATGTCCATTATTGACCCCATTAAGGAAAGTGGGAAATATCAAAAATTACTGATT TCATAAACCAAAAGACATCAATTTTAGGGTTACAGTTAGTAAATATTTTGGAGACACTT CAAAAATTTTAAACCATAAACTAGAAGAATCATCTCTTCATTGTAAGAAAGAAAGGCCTA ACAGAAAGACATTTAACTAACTGATTTTCAATCCTCTTAGAACAACAAAAATGAAAAA TAATGGTTGATTAGCTAAGCTTTGTGCTCTAATCAAACTAATTAATTACAGTGATTTTAA ATGGCAACAGCCCATCTGACTGGCAGCTTGACAGTTCAGAACTTTTGCATTGATTTT TTAACGCANAGACACTAAAATGATCCCGTCATGCAATGTTTCATCTTATGCATTCTGCATT TCTTTGCCAATCTGTAGCTAAGGATCTTGTCCAATCAATCTTATTGCGCGTTACTGGC AACTGTCGACGTAGGGCTTTGAAAGTATGTCCGAACATGCCTGATAT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_006136
Insert Size:	1770 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:	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:	<u>NM_006136.2, NP_006127.1</u>
RefSeq Size:	2373 bp
RefSeq ORF:	861 bp
Locus ID:	830
UniProt ID:	<u>P47755</u>
Cytogenetics:	7q31.2
Domains:	F-actin_cap_A
Gene Summary:	The protein encoded by this gene is a member of the F-actin capping protein alpha subunit family. It is the alpha subunit of the barbed-end actin binding protein Cap Z. By capping the barbed end of actin filaments, Cap Z regulates the growth of the actin filaments at the barbed end. [provided by RefSeq, Jul 2008]