

Product datasheet for **SC116306**

CAPZA1 (NM_006135) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAPZA1 (NM_006135) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAPZA1
Synonyms:	CAPPA1; CAPZ; CAZ1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116306 sequence for NM_006135 edited (data generated by NextGen Sequencing)

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ATGGCCGACTTCGATGATCGTGTGTCGGATGAGGAGAAGGTACGCATAGCTGCTAAATTC
ATCACTCATGCACCCCCAGGGAATTTAATGAAGTATTCAATGACGTTCCGGCTACTACTT
AATAATGACAATCTCCTCAGGGAAGGGGAGCAGACATGCATTTGCCAGTATAACATGGAT
CAGTTCACGCCTGTGAAGATAGAAGGATATGAAGATCAGGTCTTAATTACAGAGCACGGT
GACCTGGGTAATAGCAGATTTTTAGATCCAAGAAAACAAAATTTCTTTAAATTTGACCAC
TTACGGAAAGAAGCAAGTGACCCCGCCAGAAGAAGCAGATGGAGGTCTGAAGTCTTGG
AGAGAATCCTGTGACAGTGCTTTAAGAGCCTATGTGAAAGACCATTATTCCAACGGCTTC
TGTACTGTTTATGCTAAAACATCGATGGGCAACAGACTATTATTGCATGTATTGAAAGC
CACCAGTTTCAGCCTAAAACCTTCTGGAATGGTCGTTGGAGATCAGAGTGGAAGTTCACC
ATCACACCACCTACAGCCAGGTGGTTGGCGTGCTTAAGATTCAGGTTCACTATTATGAA
GATGGCAATGTTCAAGTTGGTTAGTCATAAAGATGTACAGGATTCCTAACTGTTTCGAAT
GAAGCCCAAACCTGCAAGGAGTTTATTAATAATCATAGAGAATGCAGAAAATGAGTATCAG
ACAGCAATTAGTGAAAACATCAAACAATGTCAGATACCACATTCAGGCCTTGGCCCGG
CAGCTTCCAGTTACCCGCACAAAATCGACTGGAACAAGATACTCAGCTACAAGATTGGC
AAAGAAATGCAGAATGCTTAA
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Clone variation with respect to NM_006135.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006135 unedited CTATAAGTCGGCCGCGAAATCGCACGAGTCCTCGTGCCGAATTCGGCACGAGCCTCGTGCCGAATTCGGCACGAGGCCCAAGATGGCCGACTTCGATGATCGTGTGTCGGATGAGGAGAA GGTACGCATAGCTGCTAAATTCACACTCATGCACCCCGAGGGAATTTAATGAAGTATT CAATGACGTTTCGGCTACTACTTAATAATGACAATCTCCTCAGGGAAGGGGAGCAGCATGC ATTTGCCAGTATAACATGGATCAGTTCACGCCTGTGAAGATAGAAGGATATGAAGATCA GGTCCTTAATTACAGAGCACGGTGACCTGGGTAATAGCAGATTTTTAGATCCAAGAAACAA AATTTCCCTTTAAATTTGACCACTTACGGAAAGAAGCAAGTGACCCCGCCAGAATAAGC AGATGGAGGTCTGAAATCTTGGAGAGAATCCTGTGACAGTGCTTTAAGAGCCTATGTGAA AGACCATTATTCCAACGGCTTCTGTACTGTTTATGCTACAACATATCGATGGGCAACAGAC TATTATTGCATGTATTGACAGCCACCAGTTTCAGCCTAACAACTTCTGCAATGGTCGTTG GAGATCAGAGTGGAAAGTTCACCATCACACCACCTACAGCGCANGTGTCTGGCGTGCTTAA GATTCACGCTCACTATTATGAAGATGGCAATGTTCAATTGGCTACTCCTAAAGATGTCAG GATTCATAACTGTTGCAATGAAGCCCACTGCCAAGAGTTTATTAATTTCTAGAGATGC CGAAATGATTTAGGCCGATTCTGAAACTATCAAACATGCCCATACACATTGAAGCCTT GCGCGGCACTTCCATGTCCCCACCAAATGCTGGAGCAGAAGTCAAGTCCAAAATGGAAG AATGCAAGAGCTTAAGGCTGAGTAGAACTTTATATGTGAACACAAGATTACGGGTGGCTT GAAAAACCGATTTAACCCAGGAT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006135 unedited GGCCGCAATCTAGAGTCGAGNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAA AAACAAAACAGGTATATTTCTATTAACACTCTGATACAAAAAATAGTGGGGTATGGATG GATAGTATGAAGGACAAATAATACAAATTTTTTTTATTGAAATAAACAAAATGCATACA CAGCTCAATGGGTCACCTGGAACAACTTGCTTACTATATTACTGAGCAAAAACAAAAC GGAAGCACAAACACCTTTTTTTTTTTTGACATGTATCTGGAATAGGTAGGAAAACACTAC TTGGTTTTTAAAAAAGTACCTTCCCTTAAGGCTGGTCATAAAAGTGTAAACAATGTA AATGAATCCACCATTACCAGTTGTCATATCATATCTATGTCACCTGTGTATTCTGAAAT ACACACATACCTGCCAATATACCTGGGAAAGGTTATTTATCACAGTTACACTTGAGTTC TTGGCAGGCAGGACTGAGGAAGAGTAATTTGAAAGAAGTTTACATCCTATTTAGAAAGAA ATCACTAGTATTTCCTTAAAAACAGGTTACAATAGAAAGATACTGCCTGGAAGTTATCCT TTCACTTTGGNTCATTTTTTAGTTTTTCTTTATGATTTACATAGCCTGTTATTCATTTTTGC TATACACAATCCCTGCCATAAAGATTAAGCACAGATACTATTATTCTTCACATCTGCATT TTTAAGGTTTATACTCTAATNCACAGTACGTCAGAAGTTTTTGATGTTAAAAAATAAAT GGTAAAAATCGCTCTAAAAAATGCAATGTTTATAACTCCATGGTCTAAATGGAANGGACA ATGANAGAAGGGATAAAGCAAAGTGCCTTGGGCAGGAAATGGGTTCAAGTTCTTGATATT AAAACAATTCCTAAAGAAATGCCCCTCTTTGCCTCCAAAAGAACTGAAAGTCCCATCCA ACTTTAGAAATAGTTTGGAAAGCCTAATGAGATCAAGCCCCAAGGAAAGATATTGGTTTT CATTATTAACGNAACCTCTTAGGTTGGGGAACAAAA</p>
Restriction Sites:	ECoRI-NOT
ACCN:	NM_006135
Insert Size:	2550 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_006135.1 , NP_006126.1
RefSeq Size:	2385 bp
RefSeq ORF:	861 bp
Locus ID:	829
UniProt ID:	P52907
Cytogenetics:	1p13.2
Domains:	F-actin_cap_A
Gene Summary:	CAPZA1 is a member of the F-actin capping protein alpha subunit family. This gene encodes the alpha subunit of the barbed-end actin binding protein. The protein regulates growth of the actin filament by capping the barbed end of growing actin filaments. [provided by RefSeq, Jul 2008]