

Product datasheet for **SC322673**

CASZ1 (NM_017766) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: CASZ1 (NM_017766) Human Untagged Clone
Tag: Tag Free
Symbol: CASZ1
Synonyms: CAS11; CST; dj734G22.1; SRG; ZNF693
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for SC322673
GACCAAGGAGAAGAGAATGGATCTTGGAACAGCTGAGGGCACCCGGTGCACGGACCCGCC
TGCAGGCAAGCCCGCCATGGCGCCAAACGCAAGGGTGGCCTGAAGCTGAACGCCATCTG
CGCCAAGCTGAGCCGCCAGGTGGTGGTGGAGAAGCGAGCTGACGCCGGCTCCACACGGA
GGGCAGCCATCGCAGCCCGGGACCAAGAGCGCAGTGGCCCTGAGTCTGGGGCAGCCCG
GGCCCCCGCAGCGAGGAAGACAAGAGACGGGCAGTGCAGAGAAGTGGTGAACGGGGA
GTACAGCGAGGAGCCGGCACCCACCCGTGTTGGGGCGGATTGCCCGCAGGGCCTGGA
GCTGCCTCCCGAGGGTGTCTACATGGTGCAGCCCCAGGGTGCAGCGATGAGGAAGACCA
CGCGGAGGAGCCCTCAAGGACGGCGGTGCCCTGGAGGAGAAGGATTCGGACGGGGCAGC
CTCCAAGGAGGACAGCGGCCAGCACCAGGCAGGCTTCAGGAGAGGCCCTCTCGCTGCG
GGACTACGCGGCCTCCACCATGACCGAGTTCCTCGGCATGTTTGGCTATGATGACCAGAA
CACGCGGGACGAGCTGGCCAGGAAGATCAGCTTTGAGAAGCTGCACGCGGGCTCCACCC
GGAGGCAGCCACCTCCTCATGTGCTGCCACCTCCGAGGATACCCTCAGCAAGCGGGCGG
GTTCTCTAAGTATGAGGAGTACATCCGCAAGCTCAAGGCTGGCGAGCAGCTCTCCTGGCC
GGCCCCAGCACCAGACCGAGGAGCGGGTGGCAAGGAGGTGGTGGCACCCCTGCCCGG
CCTGCGGTGCCAGCAGCAGCGCCACCTGGAGACCAAGGCCACCATCTGCCCTGCC
GTCGCACAGCAGTGTCCAGATGCAGAACCTGGTAGCCCGGCCTCCAAGTACGACTTCTT
CATCCAAAAGTGAAGACCGCGAGAATCTGCGCCCCAGAACGGGAGCACCTACAAGAA
CAGCCCCGACATGGGCGGGCCATCGCCTTCAAGACAGGCAAGGTGGGGCGCCCTTCCAA
GTACGACGTCCGGGCATCCAGAAGCCAGGCCCGCCAAGGTTCCGCCACCCCCAGCCT
GGCTCCCGCACCCCTCGCCAGCGTGCCAGTGCCCCAGCGCCCCGGGCCAGGGCCAGA
GCCTCCTGCCTCCCTGTCTTCAACTCCCGAGTACCTGAAGTCAACCTTCTCCAAAAC
AGACTCCATCACCACGGGACCGTCTCCACTGTCAAGAACGGACTGCCACAGATAAAC
AGCCGTCAGTGAAGATGTAACATTTACCAGAAATATATTGCCAGTTCTCGGGCAGCCA
GCACTGTGGCCACATCCACTGTGCCTACCAGTACCGCGAGCACTACCACTGCCTTGACCC
TGAGTGAATACTACCAGAGTTACAGAGTAAGCAGGACGTGATCCGCCACTACAACATGCA



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CAAGAAGCGGACAACCTCCCTGCAGCACGGCTTCATGCGTTTCAGCCCGCTGGACGACTG
 CAGCGTCTACTACCACGGCTGCCACCTCAATGGGAAGAGCACCCACTATCACTGCATGCA
 GGTGGGCTGTAAACAAGGTGTACACGAGCACGTCTGACGTGATGACCCACGAGAATTCCA
 CAAGAAGAATACCCAGCTCATTAAACGACGGCTTCAGCGCTTCCGAGCCACCGAAGACTG
 TGGCACAGCCGACTGCCAGTTCTACGGACAGAAGACCACGCACTCCACTGCAGGCGCCC
 CGGCTGCACATTCACCTTCAAGAACAAGTGTGACATCGAGAAGCACAAGAGCTACCACAT
 CAAGACGATGCCTACGCCAAGGACGGCTTCAAGAAGTTCTACAAGTACGAGGAGTGCAA
 GTACGAGGGCTGCGTGTACAGCAAGGCTACCAACCACTTCCACTGCATCCGCGCCGGCTG
 CGGCTTACCTTACCTCCACCAGCCAGATGACCTCTCACAAGCGCAAGCATGAGCGCCG
 GCACATCCGCTCCTCGGGCGCGCTGGGGCTGCCGCCCTCGCTGCTGGGCGCAAGGACAC
 GGAGCACGAGGAGTCCAGCAACGACGACCTTGTGACTTCTCCGCCCTGAGCAGCAAGAA
 CTCCAGCCTGAGCGCCTCCCTACCAGCCAGCAGTCTCTGCGTCCCTGGCTGCCGCCAC
 TGCCGCCACCGAGGCTGGGCCAGTGCCACCAACCTCCCAACAGCAAGATCTCGGGGCT
 GCTGCCCCAGGGCTGCCTGGCTCGATCCCCCTGGCCCTGGCCCTCTCCAACCTGGGCT
 GCCACCCCCACGCCCTACTTCCCATACTGGCTGGCCGTGGGAGCACCTCCCCGCTGT
 GGGCACCCCCAGCCTCCTGGGTGCCGTGCTGCTGGGTACGACGCTCAGCCACCCCTGA
 CACACCCACGCTGGTCCGCTCGGGAGCTGGAGACTCAGCCCCCGTGGCTGCCGCCTCTGT
 CCCGGCACCCCGCCTCCATCATGGAGAGGATCTCTGCAAGCAAGGGCCTCATCTCGCC
 CATGATGGCCAGGCTGGCTGCAGCTGCCCTTAAGCCCTCTGCCACCTTTGACCCAGGAAG
 CGGGCAGCAGGTACCCACAGCCAGGTTCCCCCGGCCAAAGTGAAGCCGGAACCCGGTGA
 GAGCACCGGCGCCAGGCCCCACGAAGCCTCCAGGACCGCAGTCTAGACCTGACTGT
 GAAGGAGCCAGCAACGAATCAAATGGCCACGCACTCCCGGCAAAATTCATCTCTTTTATC
 CTCGCTTATGAATAAGATGTCTCAGGGCAACCTGGCCTGGGCAGCCTGTGAACATCAA
 GCGGAAAGCGGAGGGGAGCCCGCTGCGGAGCCCTCGCCCTTCTAGGCAAGGCGGTGAA
 GGCCTGGTTTCAAGAGAAGTTGGCAGAGCCCTGGAAGGTGTACCTGCGCAGGTTTGGTAC
 AAAGGACTTCTGTGACGGCCAGTGTGACTTCTCCACAAGGCCCACTTCCACTGCGTGGT
 GGAGGAATGCGGCGCGCTCTTACGACCTTGGACGGGGCCATCAAGCACGCAAATTCCA
 CTTCCGGACAGAGGGAGGAGCAGCAAAAGGAAACACAGAGGCTGCCTTCCGGCCTCGGC
 CGCCGAGACCAACCTCCATGGCCCCCTCGTCCCTCCGGTCCCTCCTGTCACCACGGC
 CACGGTGTCTCTTGGAGGGGCCGCTCCAGCCCGCCTCCGTGCCCTCCACCCCCAC
 CCTGCTCGCTGGAAGCAGCTGGCTTCCACCATACCCAGATGCCTCAGATCCCAGCGTC
 AGTGCCTCACCTGCCCGCTCGCCCTTGCAACGACTTCTCTAGAGAACGCCAAGCCCCA
 GGTCAAACCCGGATTCTCCAGTTCCAGGAGAAGTGAAGTCCCTCGATGAGCCGGGAGTCC
 CGCGTTCCCTCGGTCTCGGGAGTAGGTGCTAGCAAGGGCGCTAGGAGGCCCTGTTCTCT
 CACTGCGGATGGTGTGCTGTCCCCAGCCTCTCTGGGGCATGGCCATCGGGTGATGTCCT
 TCTAGCCAAAGATGCTGTGCTCCTACCTACTGCCTGTCCAGAGCAGGCCAGCCCGCG
 TGGGCCGATGGTGGCGCAGTGGCTACTGCTCCTGCAGGGCATGTGGTGATCCTGCCAGG
 GCCAGGTGGGGTGGACTGGGCGTGGTGGTCTCAGAGGACAACCTCCAGCCTGACAAGGA
 GGGCTGCGTCTCCCTCCGAGCCTCCGTATTGGCCTCCTGTGGCTCACACCCATGGCTG
 AATCTCTACAGGGCACGTGAAGTACGGGTAGGGGCCAGGCCCTCCAGGCCGTACTGG
 CCTGCACAGTGGTCTGAGCTCTGGGTGGAAGGGACCCTCCTCACTGGATGGTGGTGGCT
 CCTTGACAGGGAGAACGGTGAATTTGATTGTCATGTGTGCGGCTTCTGTCTCAATAAA
 AGTAATAAATTGGAAAAAAAAAAAAAAAAA

Restriction Sites:

Please inquire

ACCN:

NM_017766

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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.

RefSeq: [NM_017766.3](#), [NP_060236.3](#)

RefSeq Size: 4421 bp

RefSeq ORF: 3501 bp

Locus ID: 54897

UniProt ID: [Q86V15](#)

Cytogenetics: 1p36.22

Gene Summary:

The protein encoded by this gene is a zinc finger transcription factor. The encoded protein may function as a tumor suppressor, and single nucleotide polymorphisms in this gene are associated with blood pressure variation. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Jul 2012]

Transcript Variant: This variant (2) lacks several exons and its transcription extends past a splice site that is used in variant 1, resulting in a novel 3' coding region and 3' UTR compared to variant 1. It encodes isoform b which is shorter and has a distinct C-terminus, compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.