

Product datasheet for **SC318557**

CSPP1 (NM_024790) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: CSPP1 (NM_024790) Human Untagged Clone
Tag: Tag Free
Symbol: CSPP1
Synonyms: CSPP; CSPP-L; JBTS21
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_024790 edited
 ATGCTGTTCCTCCGCTCCAGGTGGCCGCTGTAACCTCTTCGGTCCGCGACGATCCTCTAGAG
 CACTGTGTGTCTCCCGGACGCGAGCCCGCTCCCCTGAAATCTGCAAAATGGCTGATAAT
 TTGGATGAATTTATTGAAGAGCAAAAAGCCAGATTGGCCGAAGACAAAGCAGAGTTGGAA
 AGTGATCCACCTTACATGAAATGAAGGAAAAGTTGTCAGCGAAGCTTTCTGAAAACAGT
 AAGATACTGATCTCTATGGCTAAGGAAAACATACCACCAATAGTCAACAGACCAGGGGT
 TCCTTAGGAATTGATTATGGATTAAGTTTACCCTGGAGAAGACTATGAACGGAAGAAA
 CATAAATTAAGAAGAATTGCGGCAAGATTACAGACGTTATCTTACTCAGGAAAGGTTG
 AAACCTGGAACGTAACAAAGAATACAATCAGTTTCTCAGGGGTAAAGGAAGAATCCAGTGAA
 AAGTTCAGGCAGGTGAAAAGAGTACTGAGCCCAAGAGTCAGAGAAATAAAAACTATT
 GGTCAAGTTAAGCCTGATCTAATTCACAAATACAGACATCTTGTGAAAATTCAGAGGGT
 CCTAGAAAAGATGCTTAACTCCTTCAGAGGCATATGAAGAACTTCTGAACCAAAGACGA
 CTAGAGGAGGACAGATACCGACAACCTAGATGATGAAATCGAATTAAGGAATAGAAGAATT
 ATTA AAAAAGCAAATGAAGAAGTGGCATTTCACCTAAAACATCAAAGGTTTGCAAGC
 AAGGCTGGCATTCCAGATAGAAGATTTACAGATTTAATGAGGATCGTGTGTTTATAGAG
 CGGTATCATAGACCAGACCAAGATCCTGAAGTAAGTGAAGAAATGGATGAGAGGTTTAGA
 TATGAAAGTGATTTTATAGAAGACTTTGAGAGTGTATACAAATGACAGGATGCACAGG
 AACAAACGAGGGAATATGCCTCCTATGGAACATGATGGGGATGTTATAGAACAGTCAAAC
 ATAAGAATTTTCTGCTGAAAATAAAAGTGTCCAGACAATGAAACATCAAATCTGCT
 AATCAAGATACCTGTAGTCTTTTTCAGGGATGCTCTTTGGAGGTGAAGATCGAGAACTT
 ATTCAGAGAAGGAAAGAGAAAATACAGACTAGAAGTGTGGAACAAATGGCTGAGCAACAG
 AGGAACAAGAGACGAGAAAAAGATTTAGAAGTTCAGGGTTGCGAGCCTGAGGACACAAGAC
 CCTGAGAAATCGCTGATAGACTAAAGCAGTTTGTGTCACCAAGACACTTTGAAGAG
 ATGATACCACCTGAAAGACCCAGAATAGCTTTCCAGACACCTCTCCCTCTTTATCTGCC
 CCATCTGTCCCACCCATCCCATCAGTTCATCCTGTTCTCTCAAATGAAGATTTGCGC
 AGTGGACTCAGCAGCGCCCTTGGTAAAATGGTGTCTCCAGGATTGCACCTCTGCCTCCA
 CCTCCCCTACTACCCTTTGGCTACTAACTATCGAACTCCTTATGATGATGCATACTAT



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TTTTATGGGTCCAGGAATACTTTTCGATCCCAGTCTTGCTTATTATGGTTCAGGAATGATG
 GGCGTACAGCCTGCAGCTTATGTTAGTGCTCCTGTCAACCACTAGCACAACTGTT
 GTGAATACGGTTGGACAGAATGAACTGAAGATTACAAGTGATCAAGTGATAAATTCAGGA
 TTGATTTTTGAAGATAAACCGAAACCTTCCAAACAGTCACTTCAGTCTTACCAAGAGGCT
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 GGTGGTCTCCTCTCAGGGATGCAAAAAGGAAATCTGATAACTGATTTGAATAGGATGCAC
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 GAAGAAAAAGAAGAAAGACGGCTTGCAGAACAGAGGGCACGAATTCAGCAGGAGTATGAA
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 ATTCGGTTAGCTGAAGAAAGACAAAAGAGCAGAAAGAAAGAAGAAAGAAGAAGAA
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 AAGCACATGAGACAGCCTTCTCCTATAGTTCCTGCTCTTCAGAACAAAATTCGAAGCAAA
 CTCCAAAGACCTCCTTCAGTTGACAGCATCATACGTTCCCTTTATTCATGAAAAGTCCATG
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 AAAAAAATGTAATTATGGAATTATCAGAAATGAGAAAACAGCTTCGTAGTGAAGAGAGG
 CGTCTACAAGAGCGATTGCTACACATGGACAGTGTATGAAATTCCTATCAGGAAAAAG
 GAAAGGAATCCCATTGGATATATTTGATATGGCTAGACATCGGTTGCAAGCTCCTGTGAGA
 AGACATCCCCTAAGGGCTTAGACGCTGCCACTTTTCAGAAATGTTTCATGATTTTAAATGAG
 CTGAAAGATAGAGATTCAGAAACACGAGTTGATCTGAAATTTATGTACCTGGATCCTCCA
 AGAGATCATCACACCTTAGAGATTACAGCAGCAAGCCCTGCTAAGAGAGCAGCAGAAGAGG
 CTGAACAGAATAAAAAATGCAGGAAGGTGCCAAAGTTGACTTAGATGCCATCCCAAGTGCT
 AAAGTACGAGAGCAAGAATGCCCAGAGATGACACTAGTGATTTCTTGAAAACTCATT
 TTGGAATCTGATAGTGCTTTTATTGGGGCTTACGGTGAGACATATCCTGCCATTGAAGAT
 GACGCTCCTCCCTCCACCATCACAGTTGCCCTCTGCACGGGAGCGCAGGAGGAACAAATGG
 AAAGACTAGACATTGATAGCAGTCGTCCTAATGTAGCACCAGATGGTCTCTCTCTAAAA
 TCTATATCCAGTGTAATGTTGATGAGCTTAGAGTGAGAAATGAGGAACGAATGCCAAGA
 CTGAATGAATTTACAATAAACCTATTAATACAGATGATGAGAGTTCACTGGTTGACCCCT
 GATGACATCATGAAACACATAGGGGATGACGGATCAAACCTCTGTAGCAACTGAGCCCTGG
 CTCCGCCCTGGCACTTCAGAAACGCTGAAACGTTTCATGGCAGAGCAGCTGAACCAAGGAG
 CAGCAGCAGATTCTGGAAAACAGGCACTTTCACTTGGCAGGGCCTGTGCGACTGCACAT
 GGTAAAAATAAACCTGTACTGGACCCAGTAGTGCTTTTAAAGGTGAAAGGAATGGTAAAT
 CTGTACCTTTAATATGCCTACTTTTGGCCCTACCTGAAAGTTACTTTTTTCCATCAT
 CTGTATATAAAATATTTTATCATGATGTATATTATGTACATAAATAAAAGGCCATGAT
 TATTGATTTATATAATAGAATTGTATAGATTATTTTGCACAGTTTTGTCATAAATTAGG
 GTGGTAATGAACTGGATTGAACTACTATATGTGCATTATATTGAATTCGCTTGTGATTA
 AGATAAGGTGAATAAGTGTCTTAAACGTCCTGTAACCGGACTCCCTTTGTTACATGC
 ACATTTTCCATTGTACCTCGATGCAAAAGAATTCATTTAGTAGGTAC

Restriction Sites: Please inquire
ACCN: NM_024790
Insert Size: 4735 bp

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_024790.5](#), [NP_079066.5](#)

RefSeq Size: 4735 bp

RefSeq ORF: 3666 bp

Locus ID: 79848

UniProt ID: [Q1MSJ5](#)

Cytogenetics: 8q13.1-q13.2

Gene Summary: This gene encodes a centrosome and spindle pole associated protein. The encoded protein plays a role in cell-cycle progression and spindle organization, regulates cytokinesis, interacts with Nephrocystin 8 and is required for cilia formation. Mutations in this gene result in primary cilia abnormalities and classical Joubert syndrome. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Apr 2014]

Transcript Variant: This variant (1) encodes the longest isoform (1, also known as CSPP-L).