

## Product datasheet for **SC112234**

### CEP70 (NM\_024491) Human Untagged Clone

#### Product data:

|                    |                        |
|--------------------|------------------------|
| Product Type:      | Expression Plasmids    |
| Tag:               | Tag Free               |
| Symbol:            | CEP70                  |
| Synonyms:          | BITE                   |
| Mammalian Cell     | None                   |
| Selection:         |                        |
| Vector:            | <u>pCMV6-XL5</u>       |
| E. coli Selection: | Ampicillin (100 ug/mL) |



**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_024491, the custom clone sequence may differ by one or more nucleotides

```
ATGTTTCCGGTAGCCCTAAACCCAGGATTCCAGTCAACCATCAGACAGACTCATGACTGAAAAACAGC
AGGAAGAAGCAGAAATGGGAAAGCATAAATGTGCTATTGATGATGCATGGCTTAAACCTTTGTCTCTAGT
CAAAAGAACAGATCTCAAGATCTCATCTTTTGGACAAACAGTCATCAGAAAGGATGAGACAGAAATTTG
AAATTGTTGGTGGAAAGACATCATGTCAACAGAACATGATACAGGAGCTTATAGAACTAATCAACAGC
TTAGAATGAATTCAGCTAGAGCAAGCCGAGCAGCAATCAAGAACACGAGCTAATGACTTGGAAACA
AATTATGGAAGTGTGAAATCCAAATTTGGTGAATTGGAGGATGAATCACTAAGTAGGGCTTGCCACCAA
CAGAATAAAATAAAGATCTTCAAAAGGAGCAGAAAACCTTTACAGGTGAAGTGCCAGCATTATAAGAAAA
AACGAACGGAGCAAGAAGAACTATTGCTTCTTTGCAAAATGGAAAGTCTGTAGATTAAAAAGGAGGAAGA
AGATCGCATTGTCACTCAAAACAGAGTGTTTGCCTATCTGTGCAAAAGAGTTCTCATACCGTCTTGAT
AGACAGTTGCTTTGTCTAATTGATTACTATGAATCTAAAAATTAGAAAAATTCATACAAAAGGCAATATA
AAGAAGATGAAGTCAGTCAGAGAAGAAAACGACTACAGAAATCTGGATGCCTACCAACTTATAAAGG
CCTTTTAAATGTCATTACAGAACTCAAGGAATCAAAATCTAAGATTGATGCACTTTCAAGTGAAAAG
CTGAACCTCCAAAAAGATTTGGAACCCAGGCCTACGCAGCATGAATTAAGACTTTATAAACAGCAGGTGA
AGAAGCTGGAAGGACCTTAAAGAAAACGTCAAATTACAGGAGCTTATTAATCATAAGAAGGCTGAGGA
CACAGAGAAGAAAGATGAGCCAGCAATATAATCAGCAACAGGCCCTAATTGACCAGAGATACTTTGAG
GTGCTGTGTAGCATCAATTCAATTATCCACAATCCAAGAGCTCCAGTAATAATTATATAACAGACCAAAG
GGGAGTCCAAATTTTAAATAAGATCTTGTTCAAGATTGTGGATTTGAGCATCTTGTCTCTGTAATAGA
AATGTGGGCAGATCAACTGACATCCTTAAAGGATTTGTATAAGTCTTGAAGCACTATCTGCAGAACTG
GTACCTTGGCTTAATTTGAAGAAGCAGGATGAAAATGAAGGTATCAAAGTTGAAGATTTGTTGTTTATAG
TAGATACTATGCTGGAAGAAAGTTGAAAATGAAGAAAAGGACAGCAATATGCCACACTTTCAAACCTTGCA
AGCTATTGTTTCTCACTTCCAAAGTTATTTGATGTGCCTTCTTAAATGGAGTCTATCCCCGAATGAAT
GAAGTTTATACTAGGCTTGAGAAATGAACAATGCTGTGAGAAACCTCCAAGAACTCTAGAAATAGATA
GTTTCATCTCATTGTGTGTGCTAGTAAGCACTGTTGAAAACTCTGTAGGCTGATTAATGAAGATGTGAA
TGAGCAGGTTATGCAGGTATTAGGACCTGAAGACCTCCAGAGCATTATCTACAAATTGGAAGAACACGAG
GAATTTTCCAGCATTTCAGGCATTTACTAATGATCTACTTGAAATCTTAGAAATTGATGACTTGGATG
CCATTGTACCTGCAGTAAGAAATTAAGTACTTTTCATACTGA
```

**5' Read Nucleotide  
Sequence:**

>OriGene 5' read for NM\_024491 unedited

```
TGTAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCGGCTGGCTGCTGGTG
GGAGGCCGGCGACTGAGTAAGATGAAGATCCAGTTTCAGACATGAGACTCGTTGGGTGAT
CATTTTCATTGAGATCAACCTGAATGACCAGGTGAAAAGTGAAGAGTAATATGCTATGAC
TGAGTAACTATGTTTCCGGTAGCCCTAAACCCAGGATTCCAGTCAACCATCAGACAGA
CTCATGACTGAAAAACAGCAGGAAGAAGCAGAATGGGAAAGCATAAATGTGCTATTGATG
ATGCATGGCTTAAACCTTTGTCTCTAGTCAAAAGAACAGATCTCAAAGATCTCATCATT
TTTGACAAACAGTCATCAGAAAGGATGAGACAGAAATTTGAAATTGTTGGTGAAGAAACA
TCATGTCAACAGAACATGATACAGGAGCTTATAGAACTAATCAACAGCTTAGAAATGAA
CTTCAGCTAGAGCAAGCCGAGCAGCAATCAAGAACACGAGCTAATGACTTGAACAA
ATTATGGAAGTGTGAAATCCAAATTTGGTGAATTGGAGGATGAATCACTAAGTACGGCT
TGCCACCAACAGAATAAAATAAAGATCTTCAAAAGGAGCAGAAAACCTTTACAGGTGAAG
TGCCAGCATTATAAGAAAAACGACCGGAGCAAGAAGAACTATTGCTTCTTTGCAATGG
GAGTCTGTAGATTAACACAGGAGAAGAAGACGCATTGTACTCAAAACAGAGTGTTCCTA
TCTGTGCAAGAACCTTCTATACCGCTTGAAGACAGTTGCCTTGGCTACTGGATACTA
TGAATCCAAATAGAAATTCCTACCCAAAGGCATATATAGAAGAGAAAGCCCGTCCCAG
AAGGAAACCACTCCGAAATCTGGATGCCTACCATTATAAGGCCTTAATGTCATACAG
```

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_024491 unedited</p> <pre> GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTACAGAAATTTT ATTTGAGATCTCAAGTCCTTATAAAAAGTGCAATACATCAAGATTGCAAAAGACACTTTT TAAATGAGAGACTTCTATCTACTCATCCATTTTACCCTATGATTCAATTTCTACCCTAAC AGAAATGATGAAACAGTTTTTCTTTCTTCTTTTCTTCTCTGCTTTGAAAGGGCAACT GTCATGAGGGATCTTAACAGAATGTGCAATTAATCCTTGCCAGGAGAGCAGTAGCTT CCTACTGGCTAAATTTAAAGAGCCCTTGGCATTCTTTTGGTGGCTCAAAGATTATTA CAAGCTGAATCTAAAAGATTGCAACCTACTACTTGCAATCTGTCTCCCTGGGCTCCTCTT TACTCACAACTCCACTCTAAAACAACTTAAATTTTAAGCACTCAATAATTGCTTTAG AAATGAAGGGATCTAAAGTTAATTACCTTACCCTTGCAACTATTTTCTGTATAAGAATCT CANAGTTAATAAAAATTATACAGATGAAGAATGACCTAATACTAAGAAGGGGATGAATTC TGAGAGCAAATCATTTTACAACCCCTTGCTCAAAATAAGATCAATCTACAAAATACAAA ATGGTAAGAATACAATTTACACAGTAAAAATGATTTTGATTTCAGTATGAAAGCCCTTTT ATTTCTTTACTGCAGTACAATGGCTTCCAGTCATCAATTCCTAGATTCCAGTGAATCATT AGTAAGCCCGGAATGCTTGAAAAATCCCTCGGGTCTTTCAATTGAAAAATGCTCTGG AGGTTTCAGGCCCTATACCTGCTTAACCTGCTATTTCATTTTATTATAAACCCAGAGAT TTCCACGGGGCTCCCTCCCCCAATGGGGTGGACTTCTATCTTAAAGCTCTGGGGGTTC TCACCATTTGTTTTTCCAGCCAAAACCTCTTCTCGGGGAAACCCTCTTAGGAGGCAC TTAACTTTTGAAGGCCAACTCCTGCAGTTGAAGGNN </pre> |
| <b>Restriction Sites:</b>           | NotI-NotI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ACCN:</b>                        | NM_024491                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Insert Size:</b>                 | 2870 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>OTI Disclaimer:</b>              | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Components:</b>                  | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Reconstitution Method:</b>       | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Note:</b>                        | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>RefSeq:</b>                      | <u>NM_024491.2, NP_077817.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>RefSeq Size:</b>                 | 2678 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>RefSeq ORF:</b>                  | 1794 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|                      |                                                                                                                                                                                                                                                                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Locus ID:</b>     | 80321                                                                                                                                                                                                                                                                                                                                          |
| <b>UniProt ID:</b>   | <a href="#">Q8NHQ1</a>                                                                                                                                                                                                                                                                                                                         |
| <b>Cytogenetics:</b> | 3q22.3                                                                                                                                                                                                                                                                                                                                         |
| <b>Gene Summary:</b> | <p>Plays a role in the organization of both preexisting and nascent microtubules in interphase cells. During mitosis, required for the organization and orientation of the mitotic spindle. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes isoform (1). Variants 1 and 6 encode the same isoform (1).</p> |