

## Product datasheet for RC215682

### CENPJ (NM\_018451) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CENPJ (NM_018451) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CENPJ
Synonyms:	BM032; CENP-J; CPAP; LAP; LIP1; MCPH6; Sas-4; SASS4; SCKL4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215682 representing NM_018451 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTCTGATGCCAACCTCTTCAGAGTTAAACAGTGGGCAGAACTTCCTAACCCAGTGGGTGACCAATC  
CTTCTCGGGCTGGGGTCATATTAATCGTGGATTTCTATTTTGGAAAGCAGACAAAGAGAAGCGAGCAGC  
TGTGGACATTTCTACCAGCTTTCCTATTAAGGCACACATTTTCTGATAGCTTCAGCTTTATAAATGAA  
GAAGATCACTTCTGAAGAACAGAAGTTGGAGTCAAACAACCCCTTACAAACCACAGTCAGATAAATCTG  
AAACCCATACAGCCTTTCCTTGCAATTAAGGGACCACAGGTAGCGGCATGTCACAGTGCTCCTGGACA  
CCAGGAAGAAAACAAAAATGACTTCATCCAGATCTTGCAGTGAATTCAAAGAAGGGGCTTATAAAGAC  
CCACTTTTTAAAAAATTGAACAGCTGAAAGAAGTACAACAGAAGAAGCAGGAACAATTGAAGAGGCAAC  
AGTTGGAGCAACTACAGAGACTCATGGAAGAACAAGAGAAGCTGCTCACCATGGTGTCTGGGCGAGTGCAC  
ACTTCCAGGTTTGGAGTTACTGCCTGATGATCAGAGCCAGAAGCAGAGTCTCCAGGAAATACCACCACT  
GGAGAGAGAGCCACATGCTGCTCCCATCATATGTCTACCCGGACCAACCCAGGAAGAAACATACCCGT  
CCAACATTTTATCCCATGAGCAAAGCAACTTCTGTAGAAGTCTCATGGAGATTTTGTCTTAACCTCAA  
ACGTGCGTCTCCTAATTTATTTTCTGAGGCACAGTATCAAGAAGCACCTGTGGAAAAAATAATTTAAAA  
GAAGAAAACCGTAACCATCTACAGGAGAAAGTATCTTATGTTGGGAGAAAGTGACAGAAGAGATTCAGG  
AAGCAAATGATAAGAAGTTACAAAACATGATGATTCTCAGAAGTGGCTAATATTGAAGAAAGGCCCAT  
TAAAGCTGCTATTGGAGAAAGGAAAACAGACCTTTGAAGATTACTTGAAGAACAATTCAGTTGGAAGAG  
CAAGAAGTGAAGCAAAAACAGCTGAAGGAAAGCAGAAGGACCATTGCCAATCAAAGCAAAAACAAAACAAC  
CATTTTTAAAACGAGGAGAAGGTTTAGCTAGATTTACTAATGCCAAATCTAAGTTTCAAAAAGGCAAGA  
AAGTAACTAGTGACTAACCAGAGCACTCCGAGGACCAGCCGCTGTTTAAAATGGATAGACAGCAACTC  
CAGCGGAAAACCGCTCTTAAAAATAAGAGCTGTGTGCAGACAACCCATCCTTAAAAAGGACAGTAAAG  
CTAGAACCAAGAGTGGTTCTGTACCCTCAGTCAGAAGCCGAAAATGCTGAAGTGTAGTAACAGGAAAAG  
TCTTTCTCGTCCAGGATTGAAAATACAGACGGGAAGAAATGTGATGGGCAGTTTAGAGACCAGATCAA



[View online »](#)

TTTAAAAACAAAGTCACATCTAATAATAAAGAAAAATGTAAGTGAAGTGTCCAAAACCTTGGGATACTGGCT  
GCACAGGGTGGAAATAAGACACAAGGTAAGACAGACTTCTCTTTCAACAGGGCCCGCCAGCCGGCTGGC  
TGCTAAGAGCCCCATAAGGGAGACCATGAAAGAGTCTGAATCTTCTTTGACGTTTTCTTCAGAAAAAG  
TTAGAGACTTGGGAACGAGAAAAAGGAAAAATTTGGAATTAGATGAATTTTTGTTTTAGAACAAAG  
CTGCTGATGAAATATCATTTTCTAGTAATTCCTCATTGTACTGAAAATCTTAGAAAGGGATCAACAGAT  
CTGCAAAGGTACCCGATGTCTCCACCCTGTCAAAGCTGTGCCACAGAAGACAATCCGGCAGATCCC  
ATTAGCATTGTAAACCGCAGTGAGGATTTGGACCACACTGCACGTGAGAAGGAGAGTGAGTGTGAAGTCG  
CACCCAAACAACCTTCATTGCTCCTCAGCTGATGAATTGAGGGAACAGCCTTGTAAAAATCAGGAAAGC  
CGTCCAAAAGAGCACTTCTGAAAATCAGACTGAATGGAATGCACGTGACGATGAAGGTGTTCCAAATAGT  
GACAGTAGCACTGACTCTGAGGAACAGCTTGATGTTACCATAAAAACCATCGACTGAGGATAGAGAGAGGG  
GCATCAGCAGCAGAGAGGATAGCCACAAGTCTGTGATGATAAGGGGCCTTTTAAGGACACCAGGACCCA  
AGAAGATAAAAGGAGAGATGTTGATCTGGATTTGTCTGATAAAGATTACAGTAGCGATGAGTCTATCATG  
GAAAGCATAAAACATAAAGTGTCTGAGCCCTCGAGATCCTCATCCCTAAGTCTGAGTAAAATGGACTTTG  
ATGATGAAAGAAGTGGACTGACCTTGAAGAGAAATTTGTGTAACCATGATGTTGTTCTTGGGAATGAATC  
CACTTATGGGACCCGCAGACATGCTACCCTAATAATGAAATAGGTATCCTGGACAAAACAATAAAAAGG  
AAGATTGCACCAGTCAAGAGGGGAGAAGACTTGAGCAAGTCCAGGAGGAGCAGAAGTCTCTACATCGG  
AGCTGATGATGAAATCTTTCTCTTTGAAACCAAAAACCAAAGTCAGATTACACTTGGGAAATGAACT  
CAAGTTAAACATAAGTCAAGACCAACCCTGGTGACAATGCTCGATCCCAGGTTTTGAGAGAGAAAATT  
ATTGAATTGGAACAGAAATAGAAAAGTTTAAAGCTGAGAACGCATCTTAGCTAAAACCTCGCATTGAAC  
GAGAAAGTGCCTTGAAAAAAGTCAAGAAAGAAATGAGACTTCAACCAACAGAAAGCAAAAAGAAATTAGC  
TCGAATAGAAGAGTTTAAAAAGGAGGAGATGAGGAAGCTACAAAAGGAACGTAAGTTTTGAAAAGTAT  
ACTACAGCTGCAAGAAGTTCAGATAAAAAGGAACGTAAGAAATACAGACTTTAAAACAGCAAAATAG  
CAGATTTACGGGAAGATTTGAAAAGAAAGGAGACCAAAATGGTCAAGTACACACAGCCGCTCAGAAAGCA  
GATACAAATGTTAGTCAGAGAGAACACAGACCTCCGGGAAGAAATAAAAAGTATGGAAGATTCCGACTG  
GATGCCTGGAAGAGAGCAGAAGCCATAGAGAGCAGCCTCGAGGTGGAAGAAGGACAAGCTTGGCAACA  
CATCTGTTGATTTCAAAACAGTCAGATTTCTTCCAGAACCCAGGTAGAAAAATACAAGAAAAATATCT  
TCCAATGCAAGGCAATCCACCTCGAAGATCCAAGTCTGCACCTCCTCGTATTTAGGCAATTTGGATAAG  
GGACAAGCTGCCTCTCCAGGGAGCCACTTGAACCACTGAACTTCCAGATCCTGAATATAAAGAGGAGG  
AGGAAGACCAAGACATACAGGGAGAAATCAGTCATCCTGATGGAAGGTGGAAGGTTTATAAAGAAATGG  
GTGCCGTGTTACTGTTTCCAATGAACTCGAAAGGAAGTGAAGTGCAGATGGGAAGACCATCACTGTC  
ACTTTCTTAAATGGTGACGTGAAGCAGGTGATGCCAGACCAAGAGTGAATCTACTACTATGCAGCTGCC  
AGACCACTCACACGACATACCCGAGGGACTGGAAGTCTTACATTTCTCAAGTGGACAAATAGAAAAACA  
TTACCCAGATGGAAGAAAAGAAATCACGTTTCTGACCAGACTGTTAAAAACTTATTTCTGATGGACAA  
GAAGAAAGCATTTCAGATGGTACAATTTGTCAGAGTACAACGTGATGGCAACAAACTCATAGAGTTTA  
ATAATGGCCAAAGAGAAGTACATACTGCCAGTTCAAGAGACGGGAATACCCAGATGGCACTGTTAAAC  
CGTATATGCAACCGTCAATCAAGAAACGAAGTACAGATCCGGTCCGATAAGAGTTAAGGACAAGGAGGT  
AATGTGCTAATGGACACGGAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC215682 representing NM\_018451  
Red=Cloning site Green=Tags(s)

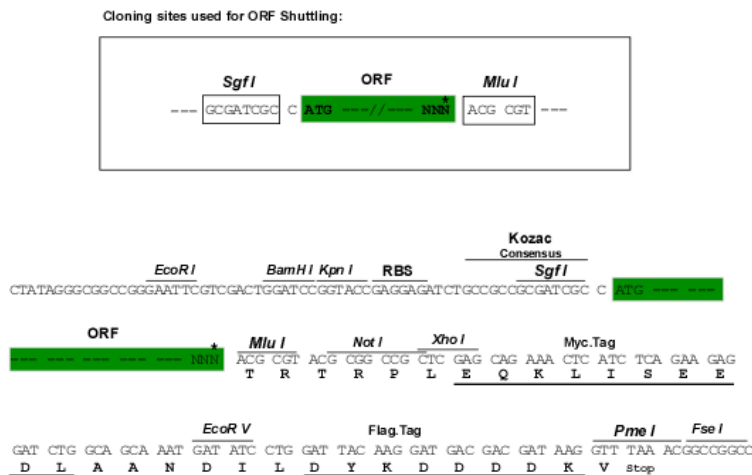
```
MFLMPTSSSELNSGQNFLTQWVTNPSRAGVILNRGFPFILEADKEKRAAVDISTSFPIKGFHSDFSFSFINE
EDSLLEEQKLESNNPYKQSDKSEHTAFPCIKKGPQVAACHSAPGHQEENKNDIFDLASEFKEGAYKD
PLFKKLEQLKEVQKKQEQQLKRQQLLEQLQRLMEEQEKL TMVSGQCTLPGLSLLPDDQSQKHRSPGNTT
GERATCCFPYVYPDPTQEETYP SNILSHEQSNFCRTAHGDFVLTSKRASP NLFSEAQYQEAPVEKNNLK
EENRNHPTGESILCWEKVTEQIQEANDKNLQKHDDSSEVANI EERP I KAAIGERKQTFEDYLEEQIQLEE
QELKQKQLKEAEGPLPIKAKPKQPFLKRGEGLARFTNAKSKFQKGKESKLV TNQSTSEDQPLFKMDRQQL
QRKTALKNKELCADNPILKKD SKARTKSGSVTLSQKPKMLKCSNRKSLSPSGLKIQTGKKCDGQFRDQIK
FENKVTSNKNENVTECPKPCDTGCTGWNKTQGDRLPLSTGPASRLAAKSPIRETMKESESSLDVSLQKK
LETWEREKEKENLELDEFLEQAAD EISFSSNSSFVLKILERDQ QICKGHRMSSTPVKAVPQKTNPADP
ISHCNRSELDHTAREKESECEVAPKQLHSLSSADELREQPCIRKAVQKSTSENQTEWNARDDEGVNS
DSSTDSEEQLDVTIKPSTEDRERGISSREDS PQVCD DKGPFK DTRTQEDKRRD VDL DLSDKYSSDESIM
ESIKHKVSEPSRSSLSL SKMDFDDERTWTDLEENL CNH D VVLGN ESTY GTPQTCYPNNEIGILDKTIKR
KIAPVKRGEDLSKRRSRSPPTSELMMKFFPSLKP KPSDSLGNELKLNISQDQPPGDNARSQVLREKI
IELETEIEKFAENASLAKLR IERESALEKLRKEIADFEQQAKELARIEEFKKEEMRKLQKERKVF EKY
TTAARTFPDKKEREIEIQLKQIADLREDLKRKETKWSSTHSRLRSQIQMLVRENTDLREEIKVMERFRL
DAWKRAEAI ESSL E VEKDKLANTSVRFQNSQISSGTQVEKYKKNYLPMQGNPPRRSKSAPPRDLGNL DK
GQAASPRELEPLNFPDPEYKEEEEDQDIQGEI SHPDGKVEKVYKNGCRVILFPNGTRKEVSADGKTITV
TFFNGDVKQVMPDQRVIY YAAAQTHTTTYPEGLEVLHFSSGQIEKHYPDGRKEITFPDQTVKNLFPDGQ
EESI FPDGTIVRVQRDGNKLI EFNNGQRELHTAQFKRREYPDGTVKT VYANGHQETKYRSGRIRVKDKEG
NVLMDTEL
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6168\\_c01.zip](https://cdn.origene.com/chromatograms/mk6168_c01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



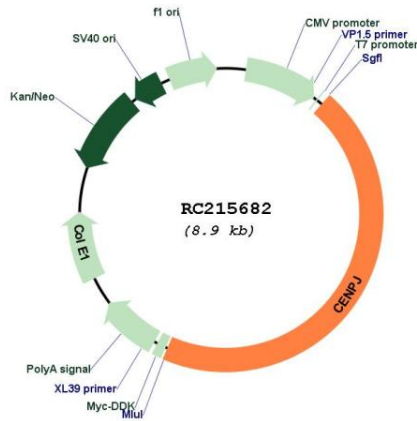
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_018451

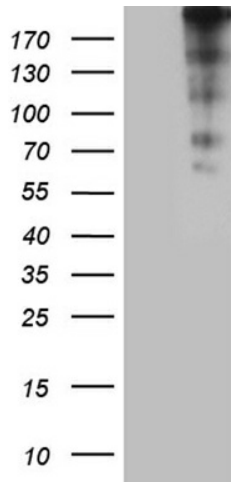
**ORF Size:** 4014 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>RefSeq:</b>	<a href="#">NM_018451.5</a>
<b>RefSeq Size:</b>	4387 bp
<b>RefSeq ORF:</b>	4017 bp
<b>Locus ID:</b>	55835
<b>UniProt ID:</b>	<a href="#">Q9HC77</a>
<b>Cytogenetics:</b>	13q12.12-q12.13
<b>MW:</b>	152.8 kDa
<b>Gene Summary:</b>	<p>This gene encodes a protein that belongs to the centromere protein family. During cell division, this protein plays a structural role in the maintenance of centrosome integrity and normal spindle morphology, and it is involved in microtubule disassembly at the centrosome. This protein can function as a transcriptional coactivator in the Stat5 signaling pathway, and also as a coactivator of NF-kappaB-mediated transcription, likely via its interaction with the coactivator p300/CREB-binding protein. Mutations in this gene are associated with primary autosomal recessive microcephaly, a disorder characterized by severely reduced brain size and cognitive disability. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Apr 2012]</p>

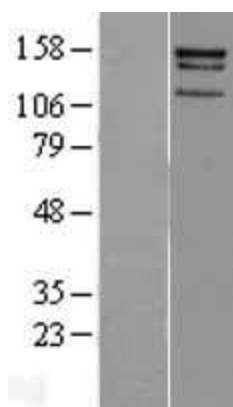
Product images:



Circular map for RC215682



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CENPJ (Cat# RC215682, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CENPJ (Cat# [TA811853]). Positive lysates [LY402685] (100ug) and [LC402685] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402685]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215682 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).