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Product datasheet for RC201052

CEP55 (NM_018131) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEP55 (NM_018131) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CEP55
Synonyms:	C10orf3; CT111; MARCH; URCC6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC201052 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTTCCAGAAGTACCAAAGATTTAATTAAAAGTAAGTGGGGATCGAAGCCTAGTAACTCCAAATCCG
AAACTACATTAGAAAAATTAAAGGGAGAAATTGCACACTTAAAGACATCAGTGGATGAAATCACAAGTGG
GAAAGGAAAGCTGACTGATAAAGAGAGACACAGACTTTTGGAGAAAATTCGAGTCCTTGAGGCTGAGAAG
GAGAAGAATGCTTATCAACTCACAGAGAAGGACAAAGAAATACAGCGACTGAGAGACCAACTGAAGGCCA
GATATAGTACTACCGCATTGCTTGAACAGCTGGAAGAGACAACGAGAGAAGGAGAAAGGAGGGAGCAGGT
GTTGAAAGCCTTATCTGAAGAGAAAGACGTATTGAAACAACAGTTGTCTGCTGCAACCTCACGAATTGCT
GAACTTGAAAGCAAAACCAATACACTCCGTTTATCACAGACTGTGGCTCCAAACTGCTTCAACTCATCAA
TAAATAATATTCATGAAATGGAAATACAGCTGAAAGATGCTCTGGAGAAAAATCAGCAGTGGCTCGTGTA
TGATCAGCAGCGGGAAGTCTATGTAAAAGGACTTTTAGCAAAGATCTTTGAGTTGGAAAAGAAAACGGAA
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AGAAATGTTACAACGATCTCTTGGCAAGTGCAAAAAAAGATCTTGAGGTTGAACGACAAACCATAACTCA
GCTGAGTTTTGAACTGAGTGAATTTCGAAGAAAATATGAAGAAACCCAAAAAGAAGTTCACAATTTAAAT
CAGCTGTTGTATTCACAAAGAAGGGCAGATGTGCAACATCTGGAAGATGATAGGCATAAAACAGAGAAGA
TACAAAAACTCAGGGAAGAGAATGATATTGCTAGGGGAAAACTTGAAGAAGAGAAGAAGAGATCCGAAGA
GCTCTTATCTCAGGTCCAGTTTCTTTACACATCTCTGCTAAAGCAGCAAGAAGAACAAACAAGGGTAGCT
CTGTTGGAACAACAGATGCAGGCATGTACTTTAGACTTTGAAAATGAAAAACTCGACCGTCAACATGTGC
AGCATCAATTGCTTGTAATTCTTAAGGAGCTCCGAAAAGCAAGAAATCAAATAACACAGTTGGAATCCTT
GAAACAGCTTCATGAGTTTGCCATCACAGAGCCATTAGTCACTTTCCAAGGAGAGACTGAAAACAGAGAA
AAAGTTGCCGCCTCACCAAAAAGTCCCACTGCTGCACTCAATGAAAGCCTGGTGGAATGTCCCAAGTGCA
ATATACAGTATCCAGCCACTGAGCATCGCGATCTGCTTGTCCATGTGGAATACTGTTCAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201052 protein sequence
Red=Cloning site Green=Tags(s)

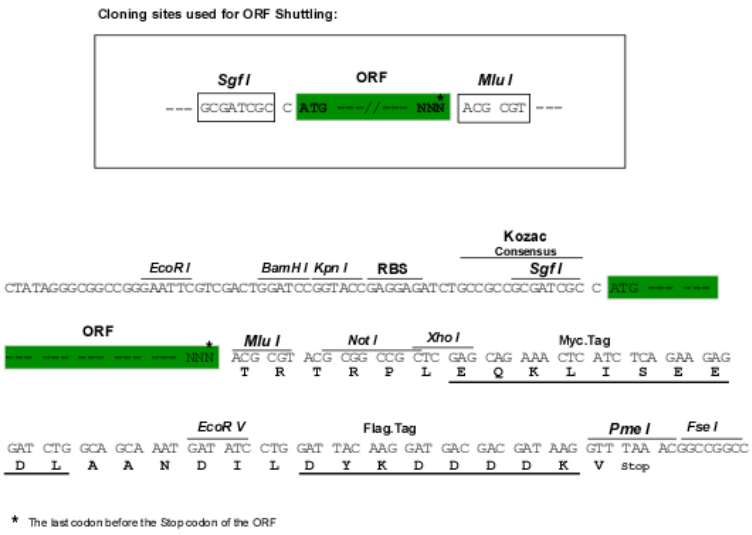
MSSRSTKDLIKSKWGSKPSNSKSETTLEKLKGEIAHLKTSVDEITSGKGKLTDKERHRLLEKIRVLEAEK
EKNAYQLTEKDKEIQRLRDQLKARYSTTALLEQLEETTREGERREQVLKALSEEKDVLKQQLSAATSRIA
ELESKTNTLRLSQTVAPNCFNSSINNIHEMEIQLKDALEKNQQWLVYDQQREVYVKGLLAKIFELEKKTE
TAAHSLPQQTKKPESEGYLQEEKQKCYNDLLASAKKDLEVERQTITQLSFELSEFRRKYEETQKEVHNLN
QLLYSQRRADVQHLEDDRHKTEKIQKLREENDIARGKLEEEKKRSEELLSQVQFLYTSLLKQQEEQTRVA
LLEQQMQACTLDFENEKLDRQHVQHQLLVILKELRKARNQITQLESLKQLHEFAITEPLVTFQGETENRE
KVAASPKSPTAALNESLVECPKCNIQYPATEHRDLLVHVEYCSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6409_a12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018131

ORF Size: 1392 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

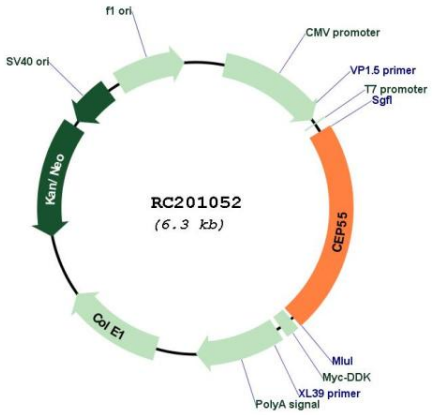
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

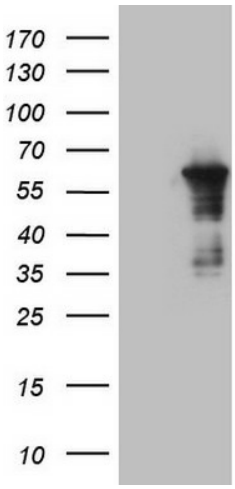
Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_018131.3, NP_060601.2
RefSeq Size:	2656 bp
RefSeq ORF:	1395 bp
Locus ID:	55165
UniProt ID:	Q53EZ4
Cytogenetics:	10q23.33
Protein Families:	Druggable Genome
MW:	54.1 kDa
Gene Summary:	Plays a role in mitotic exit and cytokinesis (PubMed:16198290, PubMed:17853893). Recruits PDCD6IP and TSG101 to midbody during cytokinesis. Required for successful completion of cytokinesis (PubMed:17853893). Not required for microtubule nucleation (PubMed:16198290). Plays a role in the development of the brain and kidney (PubMed:28264986).[UniProtKB/Swiss-Prot Function]

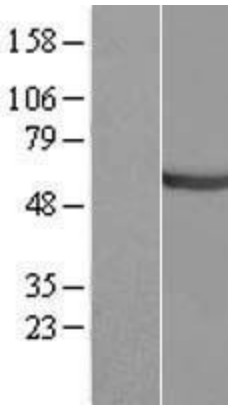
Product images:



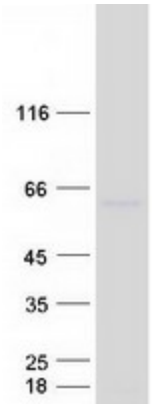
Circular map for RC201052



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CEP55 (Cat# RC201052, 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-CEP55 (Cat# [TA808973])(1:2000). Positive lysates [LY413284] (100ug) and [LC413284] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY426692]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225787] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CEP55 protein (Cat# [TP301052]). The protein was produced from HEK293T cells transfected with CEP55 cDNA clone (Cat# RC201052) using MegaTran 2.0 (Cat# [TT210002]).