

Product datasheet for **RG201052**

CEP55 (NM_018131) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEP55 (NM_018131) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CEP55
Synonyms:	C10orf3; CT111; MARCH; URCC6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201052 representing NM_018131
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTCCAGAAGTACCAAAGATTTAATTAAGTAAGTGGGGATCGAAGCCTAGTAACCCAATCCG
 AAACACTACATTAGAAAAATTAAGGGAGAAATTGCACACTTAAAGACATCAGTGGATGAAATCACAAGTGG
 GAAAGGAAAGCTGACTGATAAAGAGAGACACAGACTTTTGGAGAAAATTCGAGTCCTTGAGGCTGAGAAG
 GAGAAGAATGCTTATCAACTCACAGAGAAGACAAAGAAATACAGCGACTGAGAGACCAACTGAAGGCCA
 GATATAGTACTACCGCATTGCTTGAACAGCTGGAAGAGACAACGAGAGAAGGAGAAAGGAGGAGCAGGT
 GTTGAAAGCCTTATCTGAAGAGAAAGACGTATTGAAACAACAGTTGTCTGCTGCAACCTCACGAATTGCT
 GAACCTGAAAGCAAAACCAATACACTCCGTTTATCACAGACTGTGGCTCCAACTGCTTCAACTCATCAA
 TAAATAATATTCATGAAATGAAATACAGCTGAAAGATGCTCTGGAGAAAAATCAGCAGTGGCTCGTGTA
 TGATCAGCAGCGGAAGTCTATGTAAGGACTTTTAGCAAAGATCTTTGAGTTGAAAAAGAAAACGGAA
 ACAGCTGCTCATTCACTCCACAGCAGACAAAAAGCCTGAATCAGAAGTTATCTTCAAGAAGAGAAGC
 AGAAATGTTACAACGATCTCTTGCAAGTGCAAAAAAGATCTTGAGGTTGAACGACAAACATAACTCA
 GCTGAGTTTTGAACTGAGTGAATTTGAAAGAAAATATGAAGAAACCCAAAAAGAGTTTCACAATTTAAAT
 CAGCTGTTGTATTCACAAAGAAGGGCAGATGTGCAACATCTGGAAGATGATAGGCATAAACAGAGAAGA
 TACAAAAACTCAGGGAAGAGAATGATATTGCTAGGGGAAAACCTGAAGAAGAGAAGAAGAGATCCGAAGA
 GCTCTTATCTCAGGTCCAGTTTCTTTACACATCTCTGCTAAAGCAGCAAGAAGAACAACAGGGTAGCT
 CTGTTGGAACAACAGATGCAGGCATGACTTTAGACTTTGAAAAAGAAAACCTGACCGTCAACATGTGC
 AGCATCAATTGCTTGAATTTCTTAAGGAGCTCCGAAAAGCAAGAAATCAAATAACACAGTGGAAATCCTT
 GAAACAGCTTCATGAGTTTGCCATCACAGAGCCATTAGTCACTTTCCAAGGAGAGACTGAAAAACAGAGAA
 AAAGTTGCCGCTCACAAAAAGTCCACTGCTGCACTCAATGAAAGCCTGGTGGAAATGTCCCAAGTGCA
 ATATACAGTATCCAGCCACTGAGCATCGCGATCTGCTTGTCCATGTGGAATACTGTTCAAAG

ACCGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201052 representing NM_018131
 Red=Cloning site Green=Tags(s)

MSSRSTKDLIKSWGSKPSNSKSETTLEKLKGEIAHLKTSVDEITSGKGKLTDKERHRLLEKIRVLEAEK
 EKNAYQLTEKDKEIQRLRDQLKARYSTTALLEQLEETTREGERRQVLKALSEEKDVLLKQQLSAATSRIA
 ELESKTNTLRLSQTVPNCFNSSINNIHEMEIQLKDALEKNQQLVYDQQRVYVYKGLLAKIFELEKTE
 TAAHSLPQQTKKPESEGYLQEEKQKCYNDLLASAKKDLEVERQITITQLSFELSEFRKYEETQKEVHNLN
 QLLYSQRRADVQHLEDDRHKTEKIQKLREENDIARGKLEEEKRSEELLQVQFLYTSLLKQEEQTRVA
 LLEQQMQLACTLDFENEKLDQRHVQHLLVILKELRKARNQITQLESLLKQLHEFAITEPLVTFQGETENRE
 KVAASPKSPTAALNESLVECPKCNIQYPATEHRDLLVHVEYCSK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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.

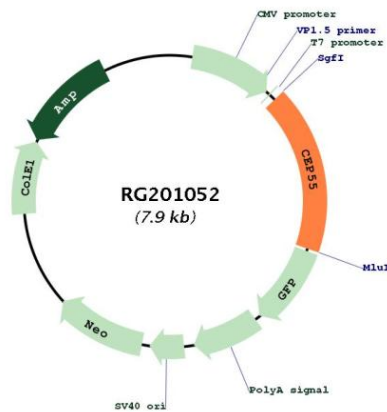
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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: 2635 bp
RefSeq ORF: 1395 bp
Locus ID: 55165
UniProt ID: [Q53EZ4](#)
Cytogenetics: 10q23.33
Protein Families: Druggable Genome
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 RG201052