

Product datasheet for **MG222501**

Cep55 (NM_001164362) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cep55 (NM_001164362) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cep55
Synonyms:	1200008O12Rik; 2700032M20Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222501 representing NM_001164362
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTCAAGAAGTCCCAAAGATTTAATTAAGCAAAATGGGGATCAAGCCTAGTAGCTCCAAGTCAG
 AACTGCATTAGAGAAATTTAAGGGAGAAATTGCAGCCTTTAAACATCCCTGGATGAAATCACCTCTGG
 GAAAGGAAAAATGGCCGAAAAAGACAGAAGCAGACTTTTGGAGAAAAATCCAAGTCTTGAAGCCGAGAGA
 GAAAAGAAATGTTTATTACCTCCTGGAGAAGGACAAAGAAATACAGAGACTCAAAGACCACCTAAGGTCAA
 GATATAGCTCTTCTTATTGTTGAGCAGCTGGAAGAGAAAAACAAAGGAATGTGAGAAGAAGCAGCAGTT
 GCTGGAGTCTTATCCAAAGAGACAGATGTCTGAAAAACCAGCTGTCCGCCACGACGAAAAAGACTTTCT
 GAACCTGAAAGCAAAGCCAGTACACTCCACCTGTACAGAGCATGCCTGCAAACCTGCTTCAACTCCTCAA
 TGAATAGTATTATGAAAAGGAGATGCAGCTGAAAGATGCTCTGGAGAAAAACCAGCAATGGCTTGTGTA
 TGATCAGCAGCGAGAGGCCCTACGTTAAAGGGCTTTTAGCAAAGATCTTCGAGCTGGAAAAGAGAACAGAG
 ACAGCCGCTGCTCCCTCACACAGCAGATGAAGAAGATTGAATCAGAAGGTTATCTTCAAGTGGAGAAGC
 AAAAATATGATCATCTCTTGAAAAATGCCAAAAAGATCTCGAAGTTGAGCGACAAGCCGTGACTCAGTT
 GCGTTTAGAACTCGATGAATTTGAAAGAAATACGAAGAAGCTCGAAAAGAAGTTGAAGACTTAAATCAG
 CTGTTGAGCTCTCAGCGAAAGGCAGACATCCAGCACCTGGAGGAGGACAAGCAGAAGACGGAGAGGATCC
 AAAAGCTGAGGGAAGAGAGCAGTATCTTCAAGGAAAAGCTGGAAGAGGAGAGGAAGGTCGGAGGAGCT
 CTTATCCAGGTCGAATTTCTACGATTCTCTGTTAAAGCACCAGAGGAGCAGGCCAGGTTAGCTCTA
 CTGGAACAGCAGATGCAGGCATGTACTTAGACTTTGAAAATGAAAACCTCGACCGCCAGAATATGCAGC
 ATCAACTATGTGATTCTTAAGGAACCTCGAAAAGCAAAAAGTCAAATAACACAGTTGGAATCCTTGCA
 GCTACATGGGTTTACCATCACAGAGCAGCCATCCCACTCCAGAGAGAACCCTGAAAGCAGAGTGAAGCT
 ACCTCACCAAAAAGTCCAGTGCTGCACTCAATGACAGCCTAGTGAATGTCCAAAGTGCAGCGTACAGT
 ACCCAGCCACCGAGCATCGAGACCTGCTTGTCCATGTGCAATACTGCATGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222501 representing NM_001164362
 Red=Cloning site Green=Tags(s)

MSSRSPKDLIKSKWGRPSSSKSDTALEKFKGEIAAFKTSLEDEITSGKGKMAEKDRSRLLEKIQVLEAER
 EKNVYLLLEKDKIEIQRKDHLSRYSSSLFEQLEEKKECEKKQQLLESLSKETDVLKNQLSATTKRLS
 ELESKASTLHLQSMPANCFNSSMNSIHEKEMQLKDALEKNQWL VYDQREAYVKLLAKIFELEKRT
 TAAASLTQMKKIESEGYLQVEKQKYDHLL ENAKKDLEVERQAVTQLRLELDEFRRKYEEARKEVEDLNQ
 LLSSQRKADIQHLEEDKQKTERIQKLR EESSIFKGL EEEKRSEELL SQVRILYD SLLKHQEEQARVAL
 LEQQMQACTLDFENEKLD RQNMQHLYVILKELRKAKSQITQLES LQLHGFTITEQPFPLQREPESRVKA
 TSPKSPSAALNDSLVECPKCSVQYPATEHRDLLVHVEYCMK

TRTRPLE - GFP Tag - V

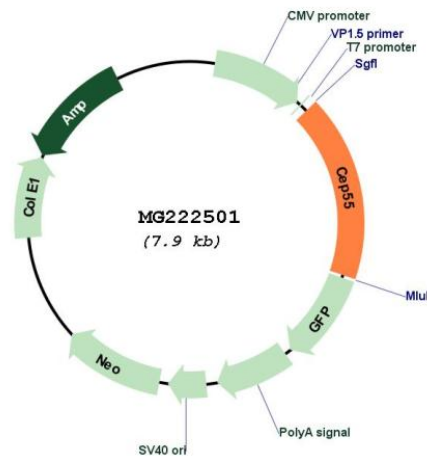
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001164362

ORF Size: 1386 bp

OTI Disclaimer: 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:	<ol style="list-style-type: none">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:	<u>NM_001164362.1</u> , <u>NP_001157834.1</u>
RefSeq Size:	2761 bp
RefSeq ORF:	1389 bp
Locus ID:	74107
UniProt ID:	<u>Q8BT07</u>
Cytogenetics:	19 C2
Gene Summary:	Plays a role in mitotic exit and cytokinesis. Recruits PDCD6IP and TSG101 to midbody during cytokinesis. Required for successful completion of cytokinesis. Not required for microtubule nucleation. Plays a role in the development of the brain and kidney.[UniProtKB/Swiss-Prot Function]