OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG216016

Cep170b (NM_001024602) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Cep170b
Synonyms:	AI466840; AW555464; Kiaa0284; mKIAA0284
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG216016 representing NM_001024602
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGTCACATCTTGGTTCCTGGTGAGCAGCAGTGGCACCCGCCACCGGCTCCCGCGTGAACTCATCT
TCGTGGGGCGTGATGAATGTGAGCTCATGTTGCAGTCCCGTAGTGTGGACAAGCAGCATGCCGTCATCAA
CTACGACCAGGACCGTGATGAGCACTGGGTGAAGGACCTGGGCAGTCTCAATGGGACATTTGTGAATGAT
GTGCGCATCCCAGACCAGAAGTACATCACACTGAAGCTCAATGACGTCATCCGCTTTGGCTATGATTCCA
ACATGTACGTGTTAGAGCGTGTGCAGCACCGTGTTCCCGAGGAGGCGCTCAAGCACGAGAAGTACACCAG
CCAGCTGCAGGTGAGCGTCAAGGTCTCTGCGCCCAAGAGGGGTGATGCACTGCCCGACCACACACCCTAC
TGCGAGTCCTCACAGCCTAGACCAGAGAAAGGTGACCGAAGACATGGAGCAGAGGCGGTCGCTTACCGCA
CACCCCTGTATGGGCAGCCCTCCTGGTGGGGTGAGGATGACAGTGGGGCACCATCTGAAGACCGGCACCA
GGAGGAGCCCTACTCAGAGCGTCCCAAGGACCTGGCACAGCAAAATGGTGAGCTGGACAGCTGCCGTGCT
CCCGCCGAGCCACCAGACTACTCGTTCAGACGTGAGCCCAGCTACTTTGAGATCCCCACGAAGGAAACCC
CGCAGCCTCCAAGGCTCCCTGAGGTGCCTACCCAGGAAGTGCCCACAAAAGACCAGGAGGCAGGTGTTGG
TGGGACGGCCCCTGTGGTGCAGAGCCACGCCTCCTTCACCATTGAGTTTGATGACTGCAGTCCAGGCAAG
GTGAAAATCAAAGACCATATCACCAAGTTCTCCCTGCGCCAGCGGCGGGCTCCCAGCAAGGAGACCACCC
CTGTGGAGACGGTCTCGGCCGAAACCAAGGTGGCCGACTGGCTGGTGCAGAACGACCCAAGCCTGCTGCG
CCGGGATGGCCCCGGGGATGACCGCCACAGCACCAAAAGCGACCTTCCTGTCCACACTCGAACTCTGAAG
GGCCACAAGCATGAGGATGGCACACAGAGCGACTCGGAGGACCCCTTGGCCAAGACTGCTTCGGTGTCTG
GAGCCTCAGCGGAGGCCAGTGGGGAGCAGGTGCGGCTGCAGAGGCAGATCAAAAGGGACCCTCAAGAGCT
GCTGCACAACCAGCAAGCCTTTGTCATCGAGTTCTTCGATGGGGACACACCCCGTAAGAAACGCTCCCAG
TCCTTTACACACACCCCGCCTGCAGACCCCAAGGCTGACAAGCGTCGGGGTCCTGGGACTTCAGACAGAG
ACCGTCCTGGTGTCTCGGTCCGTGCCACTGGCAGCAGCTCAGGACCACAGAGGGCCAGCTCGCTCAAGCG
AGAGAAGACTGAGGAGCGACTGGGCAATACTTCTCCCGTCCCCCGCGCCTCCACCCGCTCCTTTGGCAGT
GTGGGGCGCCGCTCCCGCCTGGCCCAGGACTTCATGGCCCAGTGCATGCGGGACAGTTCCCCAGCCACAA

View online »

GACCTGCCCCCGAGAAGACACCTCCAGTGCTGCCCGCCCCTTTGACACCCCGAGGAGCCAGCCCTGTGAC
CCCCTCAACCACCCCACCGCCTCCCACTGACCCTCAGCTGACCAAGGCACGTAAACAGGAGGAGGATGAC
AGTCTTAGCGACGCAGGCACGTACACCATTGAGACAGAGGCTCAAGACCAAGAAGTGGAGGAGGCTCGGA
GGATGATCGACCAGGTTTTTGGAGTGTTTGAATCCCCTGAACTCTCCAGGGTGTCCTCTGCTACCTTCCG
CCCTGTCATCAGAGGTGACAAAGATGAGTCCAGTGATGGGGGCATGGCCCAGCGGATGGCTTTGCTGCAA
GAGTTTGCCTCCCGAGCACCAGGCATGGCTCCCCAGATGGAGCAGCAGAGCCTCTTGGTCCCAGGTTCTC
CTGGGGGTCAGAAGTGGGTTTCCCGATGGGCTAGCCTGGCTGACAGCTACTCAGATGCTGGTTTGCCAGA
GGACGGTCCTGGGCGCAGAACCGGAGAGCCTGAGGGGCCCCTGCCTGTGCGAACTCGGCGTCTGCTCCCT
CAGTTGCCCAGTGGTAGGGCTGACAGCCCCGCAGGCCTTGAAGCTGCCAGGCGGAATGGCCCAGGGCCAC
CAGAGCTGGGCAGTGAGCCAGCAAACTGCCTCATAGGCCAGGAAGACCTGGACCCTGATAGTCTCAGTGA
TGCCAGTGGGTCAGATGGCGGCCGAGGCCCAGAACCAGGCACAGAGCGGCAGGAGGATCTAGCATGGGTC
AGGGGTCGGCGCTCACCACGGGCCCCTGGGGAGCTAGTCCCCACCTCTTTCTTCATTGGTGATCAGAATG
GGGAGGCCACCTTCCCCAAGAAATCATTTGTGGGTCCTGGGGAAGTGGATGGCCCAGGACGGGTAGTCCA
GACCAGCCCTTCAGCAAGGGATGGCCTTTACGTCAGTTCCAATGGGAGGATGGTGATCCAGTTGCGCAGT
GGTCGGTCCCCAGAGCCTGACCCAGCTCCACCCAAGGAGACTCTGACCTTTGCCCGGCAAGAGAGTTTCA
CTAAGGAGCCAACCAGCGGCCCCCCAGCACCTGGCAAGCTCCCCCACATTTCTAGCCACCCGCTCCTACA
AGACTTGGCTGCAGCCCGTGCCTCACGCCTGGACTTCCACGCTCAGGACACCCACCTGATCTTGAAGGAG
ACTGAGACAGCCCTGGCAGCCCTGGAAGCTCGACTCCGCTCCAAGTCTGCAGACGAGTGTGATGGGGGTA
GCACCCCCAGGCCTCCAGAGGACTCGCTGTCTGGGGATTCAGATGTGGACACAGCCAGCACCATTAGCTT
GCTCAGCGGCAAAAATGGTCCCAGCCCAACAACACCCCAGACTCCAGGACCACAGAAGGAGAGCCCATTG
TCTCCACCAACAGTACCAGACCCAGGGGGTGCTACCCCGGGCAGCGCCCGAGAGCGGATGTCTGAGAGAC
AGCATCGCCCAACACCTGCAGACTTGGGCCCTGGAGACACATCAAGGCGCGCAGCCATGCGGCGAGGTCA
TGGGTCTCGAGGGTCCCTGGACTGGCCCGAGGAAGAGCGAGGTTCTGGCCTTGCCCACTTGCCCAGTTCT
AACCACGAGACCCCAGAGGCTACCCTGGCAGGCCGACAAGGACCTCGTCGGAAACCAGCGGCTCCCCCAC
CATCCCCAGCCGCACGGGAGGAGCAAAGCCGCAGCTCCGCCACCGCTCAGAAGGTGCAGCAGGCACTGAC
CCGCTCTAACAGCCTGTCCACCCCAAGGCCCACCAGGGCCTCCCGACTCAGGCGGGCCCGTCTAGGGGAT
GCCTCAGACACTGAGGCTGTGGATGGTGAACGAGGGACCGCAGCCAACCCTGAACCAGCAAATCGTGCTG
CCCCTGAGCAGGCCAAGAAACTGACACGCTTGGACATCCTGGCCATGCCCCGGAAGCGGGCAGGCTCCTT
CACAGGGCCCAGTGATTCTGAGACTGCCCCTGCCCGTACTGGCTTCTCCGGTCGCAGTGCTGAGCTCTAC
AGCACCAGCCGTAAGCCCACGATAGCTGAGGCCCGTGCTGCTGCCAAGAAGGCTGCTGCTACTGCAGCCA
ACACTGGCCCCCGCCAGCCCTTCAGCAGGGCTCGCCCGGGCAGTGCCAGATATTCTTCCAACACGAGGCG
TCGGCAGCAGGGTTCGGATTACACGTCCACCTCCGAGGAGGAGTATGGGTCCCACCACAGCTCCCCTAAA
CACACACGCTCCCATGCCTCAACAGCCACACAGACCCCAAGGGGCAGCAGCTCTACCCGGGCTCGCTCCC
AGGGCCCCCGAGACACAGATGATGACGAGGAAGAGCCTGACCCCTACGGCTTCATCGTGCAGACAGCAGA
GATCGCAGAGATTGCTAGGCTAAGCCAGACACTAGTGAAGGATGTGGCCATCCTGGCCAGGGAGATCCAT
GATGTGGCTGGAGACGGGGACTCACTGGGCTCCCCAGGCCCCACTCGCAGCCCATCTCTCGGGAATGTGC
CCAACACCCCTGCCTCAACCATCTCAGCCCGGGAAGAGCTGGTACAGCGTATACCAGAGGCCAGCCTGAA
CTTCCAGAAAGTGCCGCCTGGCTCTATGAACTCTCACAACTTGGACCAGAACATGAATGACAGCCGAGAC
GATGCTCTGACCAACAAGACGAGGCCTCGGAACCGTGAGGAGGTGATCTTTGATAATCTGATGCTAAACC
CGGTGTCCCAGCTGTCACATGCCATTCGTGAAAACACGGAGCATCTTGCTGAGAAGATGAAGGTCCTCTT
CCAGAATACAGGCCGGGCCTGGGAGGACTTAGAGGCCAGAATCAACTCTGAGAATGAAGTACCCATCCTG
AAGACATCCAACAAGGAAATCAGCTCCATCCTGAAGGAACTTCGACGCGTACAGAAGCAGTTAGAAGTCA
TCAATGCCATCGTGGACCCCAGCTTGAACCTCGACCTACTGATGGGAAACAGGGCTCCTTCAGGGTCTGG
CCAGCCAGGACTTGGGAAAGCCCGGCCAGCAGCTCAGAGCTCAACTTCACCTGCCTCGGTGGATACCTTG
CTGCCAGCCCTGCCTCTCAGGAGCTTCCCACAGCGGGCCAACTGCGGGCCCCCCGGCCTCCCGGAGCCTG
CCTTCCTTCCTGATGCTGAGAGGTTTCTGATC

ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

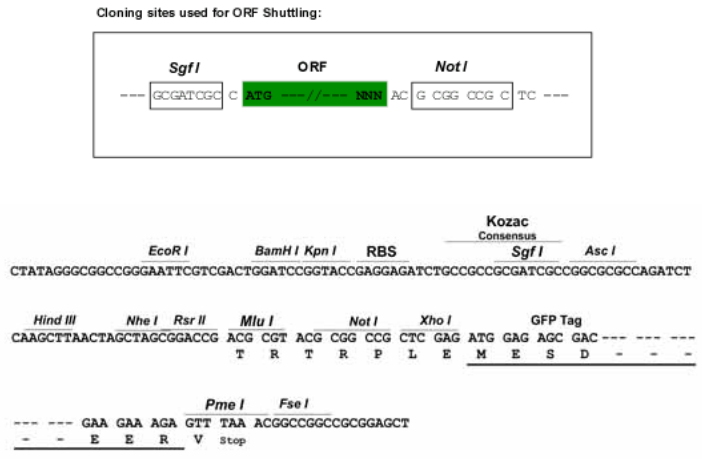
>MG216016 representing NM_001024602
Red=Cloning site Green=Tags(s)

MSVTSWFLVSSSGTRHRLPRELIFVGRDECELMLQSRSVDKQHAVINYDQDRDEHWVKDLGSLNGTFVND
VRIPDQKYITLKLNDVIRFGYDSNMYVLERVQHRVPEEALKHEKYTSQLQVSVKVSAPKRGDALPDHTPY
CESSQPRPEKGDRRHGAEAVAYRTPLYGQPSWWGEDDSGAPSEDRHQEEPYSERPKDLAQQNGELDSCRA
PAEPPDYSFRREPSYFEIPTKETPQPPRLPEVPTQEVPTKDQEAGVGGTAPVVQSHASFTIEFDDCSPGK
VKIKDHITKFSLRQRRAPSKETTPVETVSAETKVADWLVQNDPSLLRRDGPGDDRHSTKSDLPVHTRTLK
GHKHEDGTQSDSEDPLAKTASVSGASAEASGEQVRLQRQIKRDPQELLHNQQAFVIEFFDGDTPRKKRSQ
SFTHTPPADPKADKRRGPGTSDRDRPGVSVRATGSSSGPQRASSLKREKTEERLGNTSPVPRASTRSFGS
VGRRSRLAQDFMAQCMRDSSPATRPAPEKTPPVLPAPLTPRGASPVTPSTTPPPPTDPQLTKARKQEEDD
SLSDAGTYTIETEAQDQEVEEARRMIDQVFGVFESPELSRVSSATFRPVIRGDKDESSDGGMAQRMALLQ
EFASRAPGMAPQMEQQSLLVPGSPGGQKWVSRWASLADSYSDAGLPEDGPGRRTGEPEGPLPVRTRRLLP
QLPSGRADSPAGLEAARRNGPGPPELGSEPANCLIGQEDLDPDSLSDASGSDGGRGPEPGTERQEDLAWV
RGRRSPRAPGELVPTSFFIGDQNGEATFPKKSFVGPGEVDGPGRVVQTSPSARDGLYVSSNGRMVIQLRS
GRSPEPDPAPPKETLTFARQESFTKEPTSGPPAPGKLPHISSHPLLQDLAAARASRLDFHAQDTHLILKE
TETALAALEARLRSKSADECDGGSTPRPPEDSLSGDSDVDTASTISLLSGKNGPSPTTPQTPGPQKESPL
SPPTVPDPGGATPGSARERMSERQHRPTPADLGPGDTSRRAAMRRGHGSRGSLDWPEEERGSGLAHLPSS
NHETPEATLAGRQGPRRKPAAPPPSPAAREEQSRSSATAQKVQQALTRSNSLSTPRPTRASRLRRARLGD
ASDTEAVDGERGTAANPEPANRAAPEQAKKLTRLDILAMPRKRAGSFTGPSDSETAPARTGFSGRSAELY
STSRKPTIAEARAAAKKAAATAANTGPRQPFSRARPGSARYSSNTRRRQQGSDYTSTSEEEYGSHHSSPK
HTRSHASTATQTPRGSSSTRARSQGPRDTDDDEEEPDPYGFIVQTAEIAEIARLSQTLVKDVAILAREIH
DVAGDGDSLGSPGPTRSPSLGNVPNTPASTISAREELVQRIPEASLNFQKVPPGSMNSHNLDQNMNDSRD
DALTNKTRPRNREEVIFDNLMLNPVSQLSHAIRENTEHLAEKMKVLFQNTGRAWEDLEARINSENEVPIL
KTSNKEISSILKELRRVQKQLEVINAIVDPSLNLDLLMGNRAPSGSGQPGLGKARPAAQSSTSPASVDTL
LPALPLRSFPQRANCGPPGLPEPAFLPDAERFLI

TRPLE - GFP Tag - V

Restriction Sites: SgfI-NotI

Cloning Scheme:

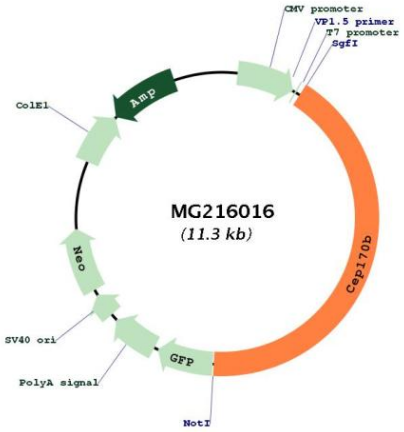


ACCN: NM_001024602

ORF Size: 4722 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001024602.3, NP_001019773.2
RefSeq Size:	6640 bp
RefSeq ORF:	4725 bp
Locus ID:	217882
UniProt ID:	Q80U49
Cytogenetics:	12 61.2 cM
Gene Summary:	Plays a role in microtubule organization.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216016