

Product datasheet for **RG209587**

CENPL (NM_033319) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CENPL (NM_033319) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CENPL
Synonyms:	C1orf155; CENP-L; dj383J4.3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209587 representing NM_033319 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTCTTACAGTGCACCAGAGTCAACTCCTAGTGCATCCTCAAGACCTGAAGATTACTTTATAGGTG
CCACTCCTCTGCAGAAACGATTAGAATCGGTCAGGAAGCAGAGTTCATTTATCCTGACTCCACCTCGAAG
GAAAATCCCCAGTGTTTCGAGTTGCAGGAAGATGTTGACCCCAAAGGTTGCATTCTCTGCATAAA
CAGTGGACTTTATATAGTTAACTCCCTTATATAAATTCTCTATAGTAATCTCAAAGAGTATTCTAGAC
TTCTCAATGCTTTTATTGTTGCTGAAAAGCAAAAAGGACTTGCTGTGGAAGTGGGAGAAGACTTCAACAT
CAAAGTGATTTTTCTACTCTCCTAGGAATGAAAGGAACACAAAGGGACCCGGAAGCATTTCCTGTCCAG
ATTGTGTCAAAATCTCAATTGCCATCTGAGAATAGAGAAGGTAAGTGCTGTGGACTGGCTGGTTCTGCT
GTGATTTGGAGACAGTCTTCTGGAGACTGTTTCAGAAGATTTACCTGTCTGCCCTTATTCCTTGCAAA
TGGAGCAGAGTCTAACACAGCAATAATTGGAACCTGGTTTCAGAAAACCTTTGACTGTTATTTAGTCCCT
TTAGCAATCAATGCATTTAATCTTTCTGGATGGCTGCCATGTGGACTGCATGCAAAATGGACCATTATG
TGGCTACTACTGAATTTCTTTGGTCTGTACCCTGTAGCCCTCAAAGTCTGGACATTTCTTTTCGCAATACA
TCCAGAGGATGCAAAAGCTCTATGGGACAGTGTCCACAAAACACCTGGGGAGGTTACCCAGGAAGAAGTT
GACCTATTCATGGATTGCCTTTATTCACATTTCCATAGACATTTCAAATTCATTTATCAGCCACAAGAT
TAGTTCTGTGTTTCAACATCTGTAGCTTCAGCACATACTGATGGAATAAAGATTCTGTGCATAAATA
CCTTATTGGAGTGTTAGCATATTTGACAGAAGTGGCAATTTTTCAAATTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209587 representing NM_033319
Red=Cloning site Green=Tags(s)

MDSYSAPESTPSASSRPEDYFIGATPLQKRLSEVRKQSSFILTPRRKIPQCSQLQEDVDPQKVAFLHK
 QWTLYSLTPLYKFSYSNLKEYSRLLNAFIVA EKQKGLAVEVGEDFNKIVIFSTLLGMKGTQRDPEAFLVQ
 IVSKSQLPSENREGKVLWTGWFCVFGDSLLETVSEDFTLCLPLFLANGAESNTAIGTWFKTFDCYFSP
 LAINAFNLSWMAAMWTACKMDHYVATTEFLWSVPCSPQSLDISFAIHPEDAKALWDSVHKTPGEVTQEEV
 DLFMDCLYSHFHRHFKIHLSATRLVRVSTSVASHTDGKIKILCHKYLIGVLAFLYLAIFQIE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033319

ORF Size: 1032 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_033319.3](#), [NP_201576.1](#)

RefSeq Size: 1910 bp

RefSeq ORF: 1035 bp

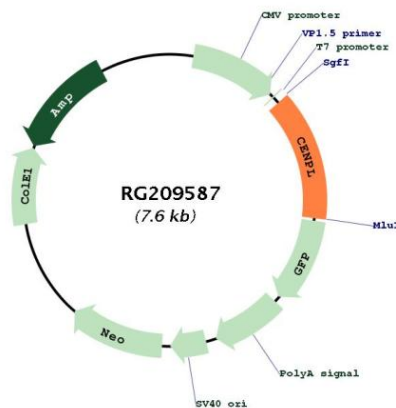
Locus ID: 91687

UniProt ID: [Q8N0S6](#)

Cytogenetics: 1q25.1

Gene Summary: CENPL is a subunit of a CENPH (MIM 605607)-CENPI (MIM 300065)-associated centromeric complex that targets CENPA (MIM 117139) to centromeres and is required for proper kinetochore function and mitotic progression (Okada et al., 2006) [PubMed 16622420]. [supplied by OMIM, Mar 2008]

Product images:



Circular map for RG209587