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Product datasheet for RG204531

CENPH (NM_022909) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CENPH (NM_022909) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CENPH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG204531 representing NM_022909
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAGCAGCCCCAGATGCAAGACGCCGACGAGCCCGCGGACTCCGGAGGGGAAGGCCGGGCAGGCG
GGCCACCGCAGGTCGCCGGCGCCCAGGCGGCGTGCAGCGAGGACCGCATGACCCTGCTCCTCAGGCTGAG
AGCACAGACAAAACAACAACTCTTAGAATATAAATCAATGGTTGATGCAAGTGAAGAAAAAACTCCAGAA
CAAATTATGCAAGAAAAGCAAATCGAAGCTAAAATTGAAGACCTGGAAAATGAAATTGAAGAGGTAAAAG
TTGCTTTTGAGATAAAAAAGCTTGCATTAGACAGGATGAGACTTTCAACTGCACTTAAAAAAAACCTGGA
GAAAATTAGCAGACAGTCTAGTGTGCTCATGGATAACATGAAACACCTATTAGAGCTAAATAAATTAATA
ATGAAATCACAGCAGGAATCTTGGGATTTAGAGGAAAAACTGCTTGATATTAGAAAGAAGAGATTGCAAT
TAAAACAAGCTTCAGAAAGTAAGCTTTTAGAAATACAGACTGAAAAGAACAAACAGAAGATTGATTTGGA
CAGTATGGAAAACTCAGAGAGGATAAAGATCATACGACAAAACCTACAGATGGAGATAAAAATTACTACT
GTTATTCAACATGTGTTCCAGAACCTTATTTTGGGGAGTAAAGTCAATTGGGCAGAGGATCCTGCCCTTA
AGGAAATTGTTCTGCAGCTTGAGAAGAATGTTGACATGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG204531 representing NM_022909
Red=Cloning site Green=Tags(s)

MEEQPQMQDADEPADSGGEGRAGGPPQVAGAQAACSEDRMTLLLRLRAQTKQQLLEYKSMVDASEEKTPE
QIMQEKQIEAKIEDLENEIEEVKVAFEIKKLALDRMRLSTALKKNLEKISRQSSVLMDNMKHLLELNKLI
MKSQQESWDLEEKLLDIRKKRLQLKQASESKLLEIQTEKNKQKIDLDSMENSERIKIIRQNLQMEIKITT
VIQHVFQNLILGSKVNWAEDPALKEIVLQLEKNVDMM

TRTRPLE - GFP Tag - V

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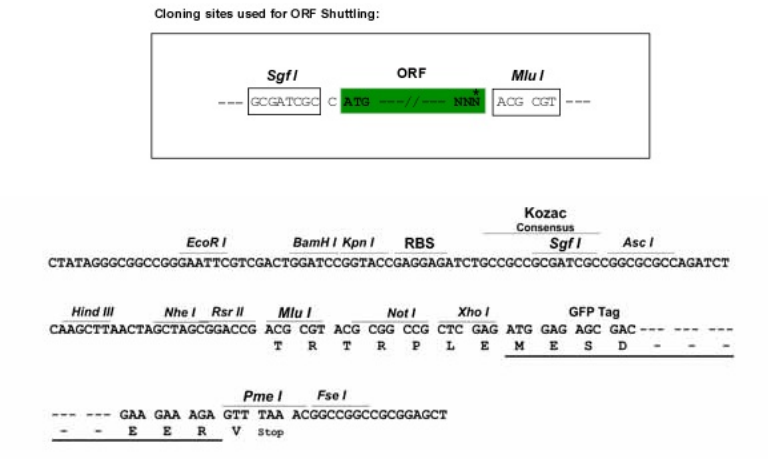
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022909

ORF Size: 741 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

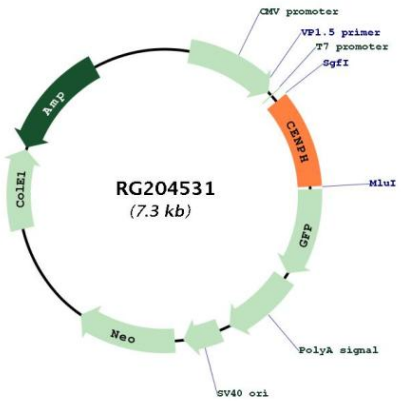
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_022909.4
RefSeq Size:	1405 bp
RefSeq ORF:	744 bp
Locus ID:	64946
UniProt ID:	Q9H3R5
Cytogenetics:	5q13.2
Protein Families:	Druggable Genome
Gene Summary:	Centromere and kinetochore proteins play a critical role in centromere structure, kinetochore formation, and sister chromatid separation. The protein encoded by this gene colocalizes with inner kinetochore plate proteins CENP-A and CENP-C in both interphase and metaphase. It localizes outside of centromeric heterochromatin, where CENP-B is localized, and inside the kinetochore corona, where CENP-E is localized during prometaphase. It is thought that this protein can bind to itself, as well as to CENP-A, CENP-B or CENP-C. Multimers of the protein localize constitutively to the inner kinetochore plate and play an important role in the organization and function of the active centromere-kinetochore complex. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204531