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 RC235445

C6ORF173 (CENPW) (NM_001286525) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C6ORF173 (CENPW) (NM_001286525) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C6ORF173
Synonyms:	C6orf173; CENP-W; CUG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC235445 representing NM_001286525 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGCTGTCGACCATAGTCTCCCAGAGGAAGCAGATAAAGCGGAAGGCTCCCCGTGGCTTTCTAAAGC GAGTCTTCAAGCGAAAGAAGCCTCAACTTCGTCTGGAGAAAAGTGGTGACTTATTGAAGAGTCCAGGACA AACGCTTGTGCGAGTAAATGTAGAGTCATTAACAAGGAGCATGTACTGGCCGCAGCAAAGG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC235445 representing NM_001286525 Red=Cloning site Green=Tags(s) MALSTIVSQRKQIKRKAPRGFLKRVFKRKKPQLRLEKSGDLLKSPGQTLVRVNVESLTRSMYWPQQR TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

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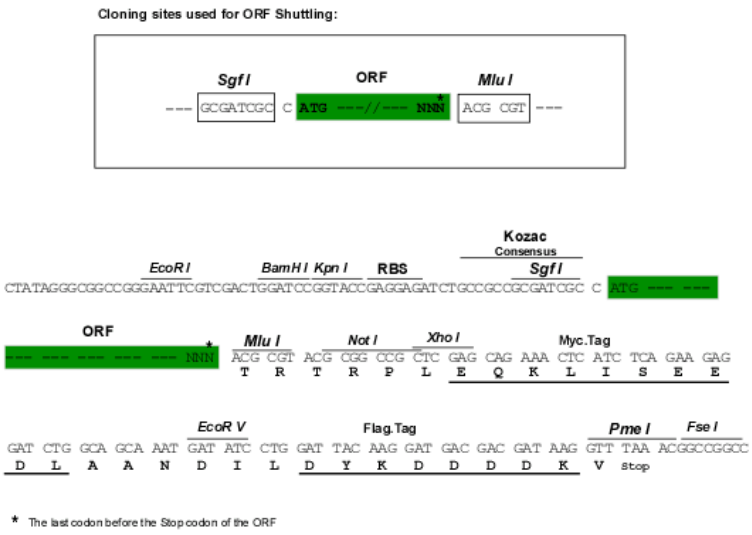
Cloning Scheme:



ACCN: NM_001286525

ORF Size: 201 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).

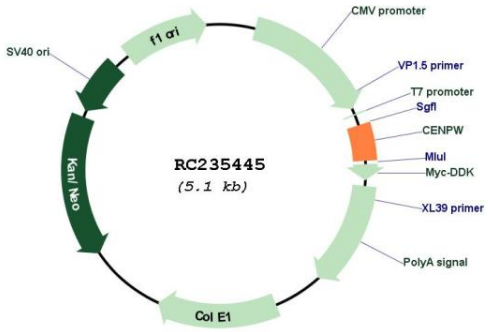
Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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.

RefSeq: NM_001286525.1, NP_001273454.1

RefSeq Size: 1095 bp

RefSeq ORF:	204 bp
Locus ID:	387103
UniProt ID:	Q5EE01
Cytogenetics:	6q22.32
MW:	8.3 kDa
Gene Summary:	Component of the CENPA-NAC (nucleosome-associated) complex, a complex that plays a central role in assembly of kinetochore proteins, mitotic progression and chromosome segregation (By similarity). The CENPA-NAC complex recruits the CENPA-CAD (nucleosome distal) complex and may be involved in incorporation of newly synthesized CENPA into centromeres (By similarity). Part of a nucleosome-associated complex that binds specifically to histone H3-containing nucleosomes at the centromere, as opposed to nucleosomes containing CENPA. Component of the heterotetrameric CENP-T-W-S-X complex that binds and supercoils DNA, and plays an important role in kinetochore assembly. CENPW has a fundamental role in kinetochore assembly and function. It is one of the inner kinetochore proteins, with most further proteins binding downstream. Required for normal chromosome organization and normal progress through mitosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC235445