

Product datasheet for **RG235445**

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: TurboGFP
Symbol: C6ORF173
Synonyms: C6orf173; CENP-W; CUG2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235445 representing NM_001286525.
 Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**
ATGGCGCTGTCGACCATAGTCTCCAGAGGAAGCAGATAAAGCGGAAGGCTCCCGTGGCTTTCTAAAG
 CGAGTCTTCAAGCGAAAGAAGCCTCAACTTCGTCTGGAGAAAAGTGGTGACTTATTGAAGAGTCCAGGA
 CAAACGCTTGTGCGAGTAAATGTAGAGTCATTAACAAGGAGCATGTACTGGCCGCAGCAAAGG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence: >Peptide sequence encoded by RG235445
 Blue=ORF Red=Cloning site Green=Tag(s)

MALSTIVSQRKQIKRKAPRGFLKRVFKRKKPQLRLEKSGDLLKSPGQTLVRVNVESLTRSMYWPQQR
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-Mlul



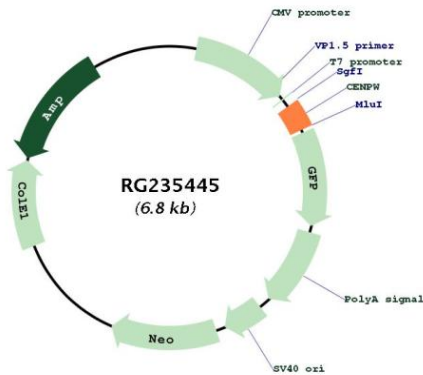
Cloning Scheme:


- 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).
- 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 RG235445