

Product datasheet for **MG219176**

Cenpe (NM_173762) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Cenpe (NM_173762) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Cenpe |
| Synonyms: | 312kDa; AU019344; BC049989; C530022J18; CENP-E; Kif10 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG219176 representing NM_173762 Red=Cloning site Blue=ORF Green=Tags(s) |

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GCC**CGATCGCC**

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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG219176 representing NM_173762
 Red=Cloning site Green=Tags(s)

M A E E A S V A V C V R V R P L N S R E E E L G E A T H I Y W K T D K N A I Y Q S D G G K S F Q F D R V F D S N E T T K N V Y E E I A V P I
 I S S A I Q G Y N G T I F A Y G Q T A S G K T H T M M G S E D C L G V I P R A I H D I F Q R I K K F P E R E F L L R V S Y M E I Y N E T I T
 D L L C N A Q K M K P L I I R E D T N R T V V Y S D L T E E V V Y T A E M A L K W L A T G E K N R H Y G I T K M N Q R S S R S H T I F R M I
 L E S R E K A E P S N C D G S V K V S H L N L V D L A G S E R A A Q T G A E G V R L K E G C F I N R N L F I L G Q V I K K L S D G Q V G G F
 I N Y R D S K L T R I L Q N S L G G N A K T R I I C T I T P A S L D E T L T L Q F A S T A K Y M K N T P Y V N E V S N D E A L L K R Y R R
 E I A D L R K Q L E E V N T K T R A Q E M E K D Q L A Q L L D E K D L L Q K V Q D E K I N N L K R M L V T S S S I A L Q Q E L E I K R K R R
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 T T L L S E E N V E S E L N S L N A Q Y N D L V L D Y E Q L R R E N E D L K L K L K E K N E L E E F E L L E Q K E E R D Q E M Q L M H E V S
 N L K N L I K H A E E Y N Q D L E N D L S S K V K L L K E K E E Q I K N L Q E Y I D A Q K S E K M K I D L S Y T S D A T E D L K Q A M R T L
 S D L D T V A L D A K K E S A F L R S E N L E L K E K I N E L S D S R K Q M E S D I Q M Y Q R Q L E A K K M Q T D L D K E L Q L A F Q E I
 S K L S A L V D G K G L L S N L E L E K R I T D L Q K E L N K E A E E K Q T L Q E E V N L L S E L K S L P S E V E T L R R E L Y E K S E E L
 H I I T T E R E K L F S E M A H K D S R I Q G L L E E I G N T R D D L A T S Q L S R R G S D G E W Q A L E S L H A E L E H R H A G V L E E R
 E R L K Q E I G A L S K E A E S L A F S L D S V K A E L S H K T Q E L E Q K T V E G Q E R L N K M E A L R E E L E S R D S S L Q S V E K E K
 V L L T E K L Q Q A L K E V K A L T Q E K K N L K Q L Q E S L Q T E R D Q L R S D I Q D T V N M N I D T Q E Q L L N A L E S L K Q H Q E T I
 N M L K M K A A E E L S D N L H V K D R G G A R D E A Q Q K M D G I D E Q N E S A H T L L G G G K D N E V T E E Q R K I D S L M Q E N S G L
 Q Q T L E S V R A E K E Q L K M D L K E N I E M S I E N Q E E L R I L R D E L K R Q Q E V A A Q E K D H A T E K T Q E L S R T Q E R L A K T
 E E K L E E K N Q K L Q E T Q Q Q L L S T Q E A M S K L Q A K V I D M E S L Q N E F R N Q G L A L E R V E T E K L E L A Q R L H E S Y E E V
 K S I T K E R N D L K E L Q E S F E I E K K Q L K E Y A R E I E A A G L Q T K E E L N I A H A N L K E Y Q E I I T E L R G S I S E N A E Q G
 A S T Q D T A K S A P E L Q G E V P E Q E L L P V V K E A R H S A E K V N G L E P V G A H S R T V H S M T M E G I E I E N L R L T K K L E E
 S Q M E I S C L T R E R E D L R R T Q E T L Q V E C T Q L K E D A R R T L A N H L E T E E E L N L A R C C L K E Q E N K I D T L I T S L S Q
 R E T E L S S V R G Q L A L T T A E L E R K V Q E L C E K Q E E L T R K E T S E A Q G K M S E L E Q L R E L L A Q A S A L Q N A E S D R L
 R L N T Q L E E S Q E E M K T L R E E R E E L R R M Q E A L H V E S E Q Q K E S M K E I S S K L Q E L Q N K E Y E C L A M K T I N E T Q G S
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 V T K G M E K E E E L R V A H V H L E E H Q E T I N K L R K M V S D Y T D E I S H T Q G D L K H T N A V V E A Q N Q D L R E K E H Q L S Q V
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 E P K T D L C Q A S L E K D V S Q C K T Q

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_173762.4 , NP_776123.3 |
| RefSeq Size: | 7813 bp |
| RefSeq ORF: | 7416 bp |
| Locus ID: | 229841 |
| UniProt ID: | Q6RT24 |
| Cytogenetics: | 3 62.55 cM |

Gene Summary:

Microtubule plus-end-directed kinetochore motor which plays an important role in chromosome congression, microtubule-kinetochore conjugation and spindle assembly checkpoint activation. Drives chromosome congression (alignment of chromosomes at the spindle equator resulting in the formation of the metaphase plate) by mediating the lateral sliding of polar chromosomes along spindle microtubules towards the spindle equator and by aiding the establishment and maintenance of connections between kinetochores and spindle microtubules. The transport of pole-proximal chromosomes towards the spindle equator is favored by microtubule tracks that are detyrosinated. Acts as a processive bi-directional tracker of dynamic microtubule tips; after chromosomes have congressed, continues to play an active role at kinetochores, enhancing their links with dynamic microtubule ends. Suppresses chromosome congression in NDC80-depleted cells and contributes positively to congression only when microtubules are stabilized (By similarity). Plays an important role in the formation of stable attachments between kinetochores and spindle microtubules (PubMed:12925705). The stabilization of kinetochore-microtubule attachment also requires CENPE-dependent localization of other proteins to the kinetochore including BUB1B, MAD1 and MAD2. Plays a role in spindle assembly checkpoint activation (SAC) via its interaction with BUB1B resulting in the activation of its kinase activity, which is important for activating SAC (PubMed:12361599). Necessary for the mitotic checkpoint signal at individual kinetochores to prevent aneuploidy due to single chromosome loss (PubMed:12925705).[UniProtKB/Swiss-Prot Function]