

Product datasheet for MC225122

Ckap5 (NM_029437) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ckap5 (NM_029437) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ckap5
Synonyms:	3110043H24Rik; 4930432B04Rik; D730027C18Rik; mKIAA0097; T25636
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225122 representing NM_029437 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGAGATGACAGTGAGTGGTTGAAATTACCAGTTGATCAGAAATGTGAACACAAGCTATGAAAAGCAA
GATTAAGTGGGTATGAAGAAGCCTTGAAGATCTCCAGAAAATAAAGGATGAAAAGAGTCCAGAATGGTC
CAAATACTTAGGATTAATCAAAAAATTTGTCAGTATTCCAATGCAGTGGTTCAATTGAAAAGGACTAGAA
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TGATGGTATGAGGTACCACAGGTAGATGCTTATGAGCTTCTGGATGCGGTAGAGATCCTTTCCAAACTT
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CCAAGCCTCTACCTGGAAGGGCTGCAGCATCAGGGGCTGCAGGGGACAAAGACACAAAAGATGTTTCAGG
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CCTATGGTATGAATGTTTGTGAGCAACCCAGGAAAAGCCTTAAAGGAGATAGCTATTCACATAGGAGA
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TTGATGAGGTCTGAGGCAGGAAGACAAAGCTGAAGCTATGTCTGGCCACATTGATCAGTTTCTGATAGC
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CCTCCACTGGAGTACTGAAAGACCTGATGCATGGACTGATCACCTAATGCTGGATTCTCGGATTGAAGA
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TAACCTAGACAGAATTCTTCTGGACATCCACATTTTCATGAAGGTCTTTCCCAAAGAGAAATTGAAGCAA
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 AAATCCTAGACCACCTTACAATGATTGATAATAAGAATGAGTCAGAATTGGAGGCCACCTGTGTCGGAT
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 ATTTCTGAAAAATTCCTCGCAGTTCTTTTCAGAGTTATGTTGAGAGAGGCCCTTCGGGTGATTGAGATGGAG
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 ACTGACCTCTTTGCTCTCCAAACCAGCAATTCCTCCAGTTGCCTCCTCCACAGACATGCTCCATAGCAAG
 CTCTCACAGCTCCGGGAGTCCCGGGAACAGCACCAGCACTCAGACCTGGATTCCAACCAGACCCACTCTG
 CAGGAACCATGACCTCTCTCTCCACAATAACATTGATGACTTGAAAAAGAGACTGGAGAGAATAAA
 GAGCAGTCGCAAA TGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_029437
- Insert Size:** 6036 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_029437.2](#), [NP_083713.2](#)
- RefSeq Size:** 6521 bp
- RefSeq ORF:** 6036 bp
- Locus ID:** 75786
- UniProt ID:** [A2AGT5](#)
- Cytogenetics:** 2 E1

Gene Summary:

Binds to the plus end of microtubules and regulates microtubule dynamics and microtubule organization. Acts as processive microtubule polymerase. Promotes cytoplasmic microtubule nucleation and elongation. Plays a major role in organizing spindle poles. In spindle formation protects kinetochore microtubules from depolymerization by KIF2C and has an essential role in centrosomal microtubule assembly independently of KIF2C activity. Contributes to centrosome integrity. Acts as component of the TACC3/ch-TOG/clathrin complex proposed to contribute to stabilization of kinetochore fibers of the mitotic spindle by acting as inter-microtubule bridge. The TACC3/ch-TOG/clathrin complex is required for the maintenance of kinetochore fiber tension. Enhances the strength of NDC80 complex-mediated kinetochore-tip microtubule attachments.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.