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Product datasheet for MC222311

Incenp (NM_016692) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Incenp (NM_016692) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Incenp
Synonyms:	2700067E22Rik; AU019509; C77457; C130081E20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC222311 representing NM_016692
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGACCACAGCCCCAGGGCCTATTTGCCTTCTGGATCTATGTGACCAGAAACTCCTGGACTTTGTCT
GCAATGTGGACAACAAGGACTTCATGTGGCTCAAGGAGATTGAGGAGGAGGCTGAGCGCATGTTTATCAG
AGAATTCAGCAATGAGCCAGAGCTGATGCCCAAAACTCCTTCTCAGAAAAACCGTCGGAAGAAGAGGCGG
GTGTCTAACATTCAGGATGAAAACAGAGATCCCGTGAGGAAAAGGTTATCCCGCAGAAAGTCTCGGAGCA
GTCAGGTGGGTACCCGGCACCTCCGCAGCAAGCCCGTTACTATTGTTGAGGAGAATGGCTTCCCTGTGTT
GCAGCGGATAACCCGGGCCACAGCTGCAGCAGCGGCAGCAGCAGCGGCAGCGTCTGTGGCATCAGCTTCT
TCCTCTTCCACTGCTGGGTCTCCCACAGTGCTGACCAAGAAAGCAGTGGTGGAGATAAGCACTAGTGAAC
GACTGAGTGCAGAACTACAACTCACTAAGCTCAAAGGTAGCCTTCCTCCATCTCCAGTTTCCCAAGGCAC
CCTGACATCAGAGGAGGAACTAACACCCAAGAAATCAGAGGCTGGAAAGCTGGACTCTGTCACAGTGAAC
TCCCTCAAGGCTACCCCTCAGAGCCCCAAGAACCGAGGGGTTGGGGAAGGACGTTCTGTTTCCAAGCTCA
AGATTGCTCGGGCCTCCTGGGGGCTGCAGGACTCTCCTGGCTCTACAGACTCACCATGGCAAGAGCGGGT
GCTTTCTCCTATCCTGCTGAATAACATCTTGCCCACAACAGCCAAGAGCCCTCTTGGGAATATTCGGTCA
GTGCGGCGAAGCCTGATTTCCCAGGATTCCCAAGTGCCACTAGCCTCGAAGTATAATTTGGTGGCCAAAC
AAGAAAATGGCAGTCGCAGATCAAGCAGAAGGATTGCCAAGAAGGCTGGCAAAGAGCCAGAGGCCTCTGC
TCGAATCATTTGTCACAGTTACCTGGAGAGGCTCCTGAATGTTGAAGTGCCTCAGAATGTTGGCCTGGAG
CAGGAGCCTGTCGAGGTGGCCGAACCTGAGGAGGCAGAAGAGGAGCAAGAGGTCTCCAAGAACAGTGGGT
GTCCCTCCAAACCCCGCAGTGCCACCAAGATTGCGATTAGTACGCCCACCTCGAAGCCTGCGGCCGCTGG
TCAGACAACAACTGTTGAAGAGCAAGAAGCTGAGCTTGACCAAACAGATGGACACAGAGAACCACCCCAG
AGTGTCAGGAGGAAACGCAGTTACAAACAGGCAATAAGTGAACCGGATGAGGAGCAACTGGAAGATGAAG
AACTGCAGCCCTGCCAGAATAAGACCCCTTCCCCACCCTGTCCAGCCAACAAGGTGGTACGGCCCCTCCG
GACTTTCCTGCACACAGTGCAGAAGAACCAGATGCTCATGACCCCCACACTGGCCTCCCGCAGCAGTGTC
ATGAAGTCCTTTATTAAACGCAACACTCCGCTTCGTGTGGACCCTAAGGAGAAGGAGCGCCAGCGCCTAG
AGAGCCTGCGACGGAAGGAGGAGGCCGAGCAGCGGCGCAGACAGAAGGTAGAGGAAGACAAGCGGCGGCG
ACTGGAGGAGGTGAAGCTGAAGCGTGAAGAGCGCCTCCGCAAGGTGTTGCAGGCCCGTGAGAGGGTGGAA
CAGATGAAGGAGGAAAAGAAGAAGCAGATTGAGCAGAAGTTTGCTCAGATTGATGAGAAGACAGAAAAGG
CTAAGGAGGAGCGTCTGGCAGAGAAGGCAAAGAAGAAGGCAACTGCCAAGAAGATGGAAGAGGTAGAGGC
ACGAAGGAAGCAGGAGGAGGAGGCACGCAGGCTCAGGTGGCTCCAACAGGAGGAAGAGGAGCGGCGGCAT
CAAGAAATGCTACAACGGAAGAAGGAGGAAGAACAGGAGCGCCGCAAAGCAGCTGAGGCCAGGCGCCTGG
CAGAACAGCGGGAGCAAGAGAGGCGAAGGGAGCAGGAGCGGCGGGAGCAGGAGCGGAGGGAACAGGAGCG
GAGGGAACAGGAACGGAAGGAGCAGGAGCGGCGGGAGCAGGAGCAGGAGCGTCTTCGGGCCAAGAGGGAG
ATGCAGGAGAGAGAGAAAGCCCTGCGACTCCAAAAGGAACGACTTCAGAAGGAACTGGAGGAGAAGAAGA
GGAAGGAAGAGCAACAGCGCCTGGCTGAGCAGCAACTGCAGGAGGAGCAGGCAAAGAAAGCTAAGGAGGT
GGCAGCAGCCAGGAAAGTCCTGAACATGACTGTGGATGTGCAGTCTCCTGTTTGTACCTCATATCAAATG
ACTCCACAAGGACCCAAATCCATCCCCAAGATCAGCGTAGACGATTATGGGATGGACCTAAATAGTGATG
ACTCCACAGATGATGAGTCCCACCCCCGGAAACCCATCCCTTCCTGGGCCAAAGGCACCCAACTCAGCCA
GGCCATTGTCCACCAGTACTACCACCCTCCAAACATTCTAGAGCTCTTCGGATCTATTCTCCCACTGGAC
TTGGAGGACATCTTTAAGAAGAGGAAGACTCGCTACCACAAGCGCACTAGCTCTGCTGTTTGGAACTCAC
CACCCCTGAAAGCCACCATGGTCCCCAGCAGTGGGGACTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_016692

Insert Size: 2631 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_016692.3, NP_057901.2
RefSeq Size:	3217 bp
RefSeq ORF:	2631 bp
Locus ID:	16319
UniProt ID:	Q9WU62
Cytogenetics:	19 6.1 cM
Gene Summary:	Component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. Acts as a scaffold regulating CPC localization and activity. The C-terminus associates with AURKB or AURKC, the N-terminus associated with BIRC5/survivin and CDCA8/borealin tethers the CPC to the inner centromere, and the microtubule binding activity within the central SAH domain directs AURKB/C toward substrates near microtubules. The flexibility of the SAH domain is proposed to allow AURKB/C to follow substrates on dynamic microtubules while ensuring CPC docking to static chromatin (By similarity). Activates AURKB and AURKC. Controls the kinetochore localization of BUB1. [UniProtKB/Swiss-Prot Function]