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Product datasheet for SC111395

HCAP G (NCAPG) (NM_022346) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCAP G (NCAPG) (NM_022346) Human Untagged Clone
Tag:	Tag Free
Symbol:	HCAP G
Synonyms:	CAPG; CHCG; NY-MEL-3; YCG1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC111395 sequence for NM_022346 edited (data generated by NextGen Sequencing)

ATGGGAGCGGAAAGGAGGCTGCTGTCGATTAAGGAGGCCTTTCGGCTGGCGCAGCAGCCG
CACCAGAACCAGGCGAAGCTGGTGGTGGCGCTGAGCCGCACCTACCGCACGATGGATGAT
AAGACAGTTTTTCATGAGGAGTTCATTCATTACCTTAAATATGTTATGGTGGTCTATAAA
CGTGAACCAGCTGTGGAGAGGGTAATAGAATTTGCAGCAAAGTTTGTTACCTCATTTCAC
CAATCAGATATGGAAGATGATGAGGAAGAGGAAGATGGTGGCCTTTTAAATTATTTGTTT
ACTTTTCTCTTAAAGTCTCATGAAGCAAACAGCAATGCAGTGAGATTTAGAGTGTGCCTG
CTCATAAACAAGCTTTTGGGAAGTATGCCAGAAAATGCTCAGATTGATGATGATGTGTTT
GATAAAATTAATAAAGCCATGCTTATTAGATTGAAAGATAAGATTCCAAATGTGAGAATA
CAGGCAGTTCTGGCGCTTTCACGACTTCAGGATCCCAAGGATGATGAATGCCCAGTGGTT
AATGCATATGCTACTTTGATTGAAAATGATTCAAATCCAGAAGTTAGACGGGCAGTGTTA
TCATGTATTGCACCATCAGCAAAGACTTTGCCAAAAATTGTAGGGCGCACCAAGGATGTG
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ATCTTAGAGTTGCTCCATCGGTTGGATGTAGAAAATTCTTCTGAAGTGGCAGTCTCTGTT
CTCAATGCCTTGTTTTCAATAACTCCTCTCAGTGAACTGGTGGGACTCTGTAAAAACAAT
GATGGCAGGAAATTGATTCCAGTGGAAACATTAACTCCTGAAATTGCTTTGTATTGGTGT
GCCCTTTGTGAATATTTGAAATCAAAAGGAGATGAAGGTGAAGAATTTTTAGAGCAGATT
TTGCCAGAGCCTGTAGTATATGCAGACTATTTATTGAGTTACATCCAGAGCATTCCAGTT
GTTAATGAAGAACACAGAGGTGATTTTTCCTATATTGGAAATTTGATGACAAAAGAATTC
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AAAAAACTGCTGGCTGTTTTACAGGAGATTCTTATTTTACCCACAATCCCAATATCCCTG
GTTTCTTTTCTTGTTGAAAGACTACTCCACATCATTATAGATGATAATAAGAGAACACAA
ATTGTTACAGAAATTATCTCAGAGATTCGGGCGCCCATTGTTACTGTTGGTGTTAATAAC
GATCCAGCTGATGTAAGAAAGAAAGAACTCAAGATGGCTGAAATAAAAGTTAAGCTTATC

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GAAGCCAAAGAAGCTTTGGAAAATTGCATTACCTTACAGGATTTTAATCGGGCATCAGAA
TTAAAAGAAGAAATAAAAGCATTAGAAGATGCCAGAATAAACCTTTTGAAAGAGACAGAG
CAACTTGAAATTAAAGAAGTCCACATAGAGAAGAATGATGCTGAAACATTGCAGAAATGT
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GAACCAGAATCAGAAATGAAGATGAGACTACCAAGACGAGCCAAAACCGCAGCACTAGAA
AAAAGTAAACTTAACCTTGCCCAATTTCTCAATGAAGATCTAAGTTAG

Clone variation with respect to NM_022346.3
777 t=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022346 unedited
NGGGTTCAAATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGGAGAGCG
CTGCCTCTGGGTTGGCGGGCTGGCAGGCTGTAGCCGAGCGCGGGCAGGACTCGTCCCGGC
AGGGTTCCAGAGCCATGGGAGCGGAAAGGAGGCTGCTGTCGATTAAGGAGGCCTTTCGGC
TGGCGCAGCAGCCGCACCAGAACCAGGCGAAGCTGGTGGTGGCGCTGAGCCGCACCTACC
GCACGATGGATGATAAGACAGTTTTTCATGAGGAGTTCATTCATTACCTTAAATATGTTA
TGGTGGTCTATAAACGTGAACCAGCTGTGGAGAGGGTAATAGAATTTGCAGCAAAGTTTG
TTACCTCATTTCACCAATCAGATATGGAAGATGATGAGGAAGAGGAAGATGGTGGCCTTT
TAAATTATTTGTTTACTTTTCTCTTAAAGTCTCATGAAGCAAACAGCAATGCAGTGAGAT
TTAGAGTGTGCCTGCTCATAAACAAGCTTTTGGGAAGTATGCCAGAAAATGCTCAGATTG
ATGATGATGTGTTTGATAAAATTAATAAAGCCATGCTTATTAGATTGAAAGATAAGATTC
CAAATGTGAGAATACAGGCAGTTCTGGCGCTTTCACGACTTCAGGATCCCAAGGATGATG
AATGCCCAGTGGTTAATGCATATGCTACTTTGATTGAAAATGATTCAAATCCAGAAGTTA
GACGGGCAGTGTTATCATGTATTGCACCATCAGCAAAGACTTTGCCAAAATTGTAAGGCG
CACCAAGGATGTGAAAGAAGCTGTCAGAAAGCTGGCCTATCANGTTTTAGCTGAAAAGGT
TCATATGAGAGCTATGTCCATTGCTCAGAGAGTATGCTCCTTCACAAGGTCTAATGACAG
AC

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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_022346 unedited
CGCCTTCTATGTCGAGTTTTTTTTTTTTTTTTTTGATTTTGACAAGGGTAACTTCTTCTT
TATTAAAGCAAATAACTGGACATAATCTTAAAGGATTCCACCTCCATCGTCTTTCCTAAC
TTAGATCTTCATTGAGAAATTGGGCAAGGCTAAGTTTACTTTTCTTCTAGCGCTGCGGTT
TTGGCTCGTCTTGGTAGACTCATCTTCATTTCTGATTCTGGTTCTGGAACTTCATGATCA
CTTTCAGAGTCGGCTTCAGCAGTCTGACACCTCCTGTTCGTCCTAGCTGAAACTGTCACT
TTTCTCTGTCCTCTGTTAGACTTTAGCTGAGTAGACTTTGATGCTTGGGTTGCTTTTACA
CCCCCTGAGTGGAGTCATATATACTTCTTTATTCTTTTCATCTTCATTTTGGAAAGTAGT
TGTAGTCAAGGTGGCATCCTGTGCTGCTTCAGCTTGGACACCAAATTCTTTATTTCCTTT
TTCTAACTGAATCTTGATTTTCTCCAAAGCTCTCAGACATGTACTATCTTTTACTTGCTC
CAGAATCTCATTCAATAGAACCAGAAGATCCTTTGCAAGATGGCTACTGAGTTCTAAAGA
CCTCAAGGCTTTTGTATAGACTCGAATTCCTGCCGAGCACGGACTTGTTAAGATCTCATT
GCAAATCTTCATAGCCCAATTGTCATGTACTGTTAAGGCCTGATAATCTGGGAAGTCTTG
CACTGAAGATTCTATTCACTTGGTCCCTGACAAATCTACAAGTAACTCAGCAACATTTGT
GATATCCAATTCCAGCTTAAGGAGAAGATGCAGGGGCATTGGCCAGAGGTTGCCGGGTTG
GAAGAAAAGCCCTTCCAAGCATCCTGATTAAACCCGCCGCATAAGCACACCCGGGGAGAT
ACCCCTAGCATGGCACACAATGCCCTCACCTCCCTTTCCGCTTGTCTCTTACACTATACG
CACCAATATACCGTCGCGTCCATACGCACGAAAACACGTGCTGGCTGCTCCTTCT
```

Restriction Sites: NotI-NotI

ACCN: NM_022346

Insert Size: 3180 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_022346.3, NP_071741.2

RefSeq Size: 4682 bp

RefSeq ORF: 3048 bp

Locus ID: 64151

UniProt ID: Q9BPX3

Cytogenetics: 4p15.31

Domains: Cnd3_C

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Protein Families: Druggable Genome

Gene Summary: This gene encodes a subunit of the condensin complex, which is responsible for the condensation and stabilization of chromosomes during mitosis and meiosis. Phosphorylation of the encoded protein activates the condensin complex. There are pseudogenes for this gene on chromosomes 8 and 15. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]
Transcript Variant: This variant (1) represents the longer transcript and encodes the protein.
Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.

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