

Product datasheet for **SC310128**

CENPI (NM_006733) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CENPI (NM_006733) Human Untagged Clone
Tag:	Tag Free
Symbol:	CENPI
Synonyms:	CENP-I; FSHPRH1; LRPR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC310128 representing NM_006733.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTCACCTCAAAGAGAGTTAAGAACGTCCAGGCACAAAACAGGACTTCACAAGGTAGTAGTATTTT
CAGACCACGCTTTCAGCCTGGAAGTAAACAGGATCCAAGCAACTCGAAGAACATCTCAAACATGGA
CAAAACAATCCAGTGGGAGATTATGAACATGCTGATGATCAAGCTGAAGAAGATGCTTTGCAATGGCA
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AGTAGTGTTCATCATTCTCCATTCCCAGAGCAGAGGGCATAAACTGCAACAATCAATATTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI
ACCN: NM_006733
Insert Size: 2271 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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_006733.3</u>
RefSeq Size:	3263 bp
RefSeq ORF:	2271 bp
Locus ID:	2491
UniProt ID:	<u>Q92674</u>
Cytogenetics:	Xq22.1
MW:	86.7 kDa
Gene Summary:	This gene encodes a centromere protein that is a component of the CENPA-NAC (nucleosome-associated) complex. This complex is critical for accurate chromosome alignment and segregation and it ensures proper mitotic progression. This protein regulates the recruitment of kinetochore-associated proteins that are required to generate the spindle checkpoint signal. The product of this gene is involved in the response of gonadal tissues to follicle-stimulating hormone. Mutations in this gene may be involved in human X-linked disorders of gonadal development and gametogenesis. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 13. [provided by RefSeq, Jan 2016] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). 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.