

Product datasheet for **SC108296**

beta COP (COPB1) (NM_016451) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	beta COP (COPB1) (NM_016451) Human Untagged Clone
Tag:	Tag Free
Symbol:	beta COP
Synonyms:	BARMACS; COPB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108296 sequence for NM_016451 edited (data generated by NextGen Sequencing)

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ATGACGGCGGCTGAGAACGTATGCTACACGTTAATTAACGTGCCAATGGATTTCAGAACCA
CCATCTGAAATTAGCTTAAAAAATGATCTAGAAAAAGGAGATGTAAGTCAAAGACTGAA
GCTTTGAAGAAAGTAATCATTATGATTCTGAATGGTGAAAACTTCTGGACTTCTGATG
ACCATCATTCTGTTTTGTCTACCTCTTCAGGATCACACTATCAAGAAATTAATCTGCTGTA
TTTTGGGAAATTGTTCTAAAACAACCTCCAGATGGGAGACTTTTACATGAGATGATCCTT
GTATGTGATGCATACAGAAAGGATCTTCAACATCCTAATGAATTTATTCGAGGATCTACT
CTTCGTTTTCTTTCGAAATTGAAAGAAGCAGAATTGCTAGAACCTTTAATGCCAGCTATT
CGTGCATGTTGGAGCATCGACACAGCTATGTTAGAAGAAATGCTGTTTTGGCCATCTAT
ACCATCTATAGAAATTTGAACATCTTATACCTGATGCTCCTGAACTGATACATGATTTT
CTGGTGAATGAGAAGGATGCAAGTTGCAAAAGGAATGCATTTATGATGCTAATTCATGCA
GATCAGGATCGAGCTTTGGATTACTTAAGTACTTGCATTGATCAAGTTCAAACATTTGGA
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GAAAGAGCTCGTTTTATTCGCTGCATCTATAACTTATTACAGTCAATCCAGCCCTGCTGTA
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GCTGCTCAGTGTTACATTGATTTAATTATAAGGAGAGCGACAACAATGTAAAACATCATA
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CTGCAGTTAGCACTGGATCTTGTCTCTTAGAAATGTTGAAGAGCTGGTTATTGTCCTG
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CAACTCCTAGTGCGAACATTGCATTCCTGTTCTGTCCGATTTCCAGATATGGCTGCAAA
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AGGTCCCTTGAGAGATCCCAATTGTAGAGTCAGAAATAAAGAAAGAAGCTGGTGAATTA

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AAACCTGAAGAAGAAATAACTGTAGGGCCAGTTAGAAATGGTTACTGAAATGGGTACC
TATGCAACTCAGAGTGCCTTAGCAGTTCTAGACCCACCAAGAAAGAGGAAGACAGACCT
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CCTAAGAAGCCAATTACTGATGATGATGTGGATCGAATTTCCCTGTGCCTCAAGGTCTTG
TCTGAATGTTACCTTTAATGAATGACATTTTCAATAAGGAATGCAGACAGTCCCTTTCT
CACATGTTATCTGCTAACTAGAAGAAGAGAAATTTATCCCAAAGAAAGAAATCTGAAAG
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TTTGGTGAAGATGCATTGCAATGTGAGCATTGAGAAGCCAATTCACCAGGGACCAGAT
GCTGCTGTTACCGCCATATAAGAATTCGTGCAAAGAGCCAGGGAATGGCCTTAAGTCTT
GGAGATAAAATCAACTTGTACAGAAGAAAAGTATATATAA
    
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Clone variation with respect to NM_016451.4

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_016451 unedited
CGGTCAACATTTGTATACGACTCACTATAGGGCGGCCGCGATTCGGCACGAGGGCCCCCA
GTCCCAAAGGCGTGATTTTCTGGCATCCTTAAATCTTGTGTCAAGGATTGGTTATAATAT
AACCAGAAACCATGACGGCGGCTGAGAAGTATGCTACACGTTAATTAACGTGCCAATGG
ATTCAGAACCCACATCTGAAATTAGCTTAAAAAATGATCTAGAAAAAGGAGATGTAAAGT
CAAAGACTGAAGCTTTGAAGAAAGTAATCATTATGATTCTGAATGGTAAAAAATCCTG
GACTTCTGATGACCATCATTCTGTTTTGTGCTACCTCTTCAGGATCACACTATCAAGAAAT
TACTTCTGGTATTTTGGGAAATGTTTCTAAAACAACCTCCAGATGGGAGACTTTTACATG
AGATGATCCTTGTATGTGATGCATACAGAAAGGATCTTCAACATCCTAATGAATTTATTC
GAGGATCTACTCTTCGTTTTCTTGAATTTGAAAGAAGCAGAATTGCTAGAACCTTTAA
TGCCAGCTATTCGTGCATGTTTGGAGCATCGACACAGCTATGTTAGAAGAAATGCTGTTT
TGCCATCTATACCATCTATAGAAATTTGAACATCTTATACCTGATGCTCCTGAACTGA
TACATGATTTTCTGGTGAATGAGAAGGATGCAAGTTGCAAAGGAATGCATTTATGATGC
TAATTCATGCAGATCAGGATCGAGCTTTGGATTACTTAAGTACTTGCATTGATCAAGTTC
AAACATTTGGAGACATTCTGCAGCTGGNTATTGGTTGACTGATTTTATAAGGTCTGTCAT
GCTAATCCATCAGAAGAAGCTCGTTTTATTCTGCTGCATCTATTACTTATTACAGTCATCC
CAGCCTGCTGTA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_016451 unedited GTCCGCGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTATGAATAGATCTGTTT ATTGTACTGTGAAAAGGGTCTTGGTACATGAAACATTATATACTTTGAGGACAGCATTCA GAACTGTTAAGACAAAAGACAACTATAATTTTAACTCAATCTTGATTTAAGGGAAAGG CTATAAATTATTGGCTGAAAAGTATTTCAGCATGAACTCAGATTCTATATAAGCATGAAAG AGTACAAAAGATGTTGGAGTCCAGTAAGCCCATACCTAAATTAAGTAAAGCTTCAAGG ACTTTTTGTTTTATTTTATATACTAGTTTTCTTCTGTGACAAGTTGATTTTATCTCCAAG ACTTAAGGCCATTCCCTGGCTCTTTCACGAATTCTTATATGGCCGGTAACAGCAGCATC TGGTCCCTGGTGAATTGGCTTCTCAATGCTGACATTTGCAAGTGCATCTTCACCAATAT GGAACGAGCATAAAGGTTGGCTGCCATAAAGCCACAGTAACCAGAAAGGGCCTTTTCTGG AGTCAGGCATTTTCATATTGGCTGACTTTAATATGTGCTGCAAGTACCCATTTAAATCAAC CATGTCGGTGGCAACCTGTACCTTTGTTCCCCATTTCAAATCTCGGCCACCATTGACA CGAATTTTGCATTACTCGCAAGTTCGCATGGCTGGAATATCCCCCTGATGTCCAATGT GAACTAATCACTGAAAACCAACCACAATTTCTGGCCCTTTGCTTGTCCAGAGACAA TTTTAAACCTTTTTACCCAAAATTTATTTCCATTTTCTGGTGCATGCCACCTCCCC CTTACCCTTTAATTTTTGCCGAATTCCTTAAGGGCCACAAAGTCCAAGGAAAGACCTT TCCACAAATTTCCAACCCCTTCTGTACCTCATATCTAATGGCGACATCTCCAACCC CCACCGTTTCGGTTCT
Restriction Sites:	NotI-NotI
ACCN:	NM_016451
Insert Size:	3800 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:	<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:	<u>NM_016451.3</u> , <u>NP_057535.1</u>
RefSeq Size:	3528 bp
RefSeq ORF:	2862 bp
Locus ID:	1315
UniProt ID:	<u>P53618</u>
Cytogenetics:	11p15.2
Domains:	Adaptin_N

Gene Summary:

This gene encodes a protein subunit of the coatomer complex associated with non-clathrin coated vesicles. The coatomer complex, also known as the coat protein complex 1, forms in the cytoplasm and is recruited to the Golgi by activated guanosine triphosphatases. Once at the Golgi membrane, the coatomer complex may assist in the movement of protein and lipid components back to the endoplasmic reticulum. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jan 2009]

Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein.