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Product datasheet for SC304462

BCMO1 (BCO1) (NM_017429) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BCMO1 (BCO1) (NM_017429) Human Untagged Clone
Tag:	Tag Free
Symbol:	BCMO1
Synonyms:	BCDO; BCDO1; BCMO; BCMO1; BCO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_017429 edited
ATGGATATAATATTTGGCAGGAATAGGAAAGAACAGCTGGAGCCTGTGAGGGCCAAAGTG
ACAGGCAAGATTCCAGCATGGCTGCAGGGAACCCTGCTCCGCAACGGGCCTGGGATGCAC
ACAGTTGGGGAGTCCAGATACAACCATTGGTTCGACGGCCTTGCCCTGCTCCACAGCTTC
ACCATCAGAGACGGTGAAGTCTATTACAGGAGCAAATACCTGAGAAGCGATACCTACAAC
ACCAATATTGAGGCAAACAGGATTGTGGTGTCTGAGTTTGGAACAATGGCCTATCCGGAC
CCCTGCAAAAACATATTTTCCAAAGCTTTCTCCTACTTGTCTCACACCATCCCCGATTTC
ACCGACAACTGCCTGATCAACATCATGAAGTGCGGAGAAGACTTCTACGCGACCTCAGAG
ACCAATTACATCAGGAAAATCAACCCACAGACTCTGGAAACCCTGGAGAAGGTTGATTAT
CGTAAATACGTGGCGGTAAATCTGGCAACGTCACATCCCCATTATGATGAGGCTGGAAAT
GTTCTAAACATGGGCACATCCATTGTGGAAAAGGGGAAGACAAAGTATGTGATTTTTAAG
ATCCCTGCCACAGTACCAGAGGGCAAGAAGCAGGGGAAGAGCCCCTGGAAGCACACAGAG
GTGTTCTGCTCCATCCCATCCCGCTCCCTGCTCTCCCCAAGCTACTACCACAGCTTTGGA
GTCACCGAGAACTATGTCATCTTCCTTGAGCAGCCTTTCAGGTTGGATATTCTCAAGATG
GCAACCGCATACATCCGGAGTATGAGCTGGGCCTCCTGCCTGGCTTTCCACAGGGAGGAG
AAGACTTATATCCACATCATCGACCAAAGGACCAGGCAGCCTGTGCAGACCAAGTTTTAC
ACAGACGCCATGGTGGTCTTCCATCACGTCAACGCCTACGAAGAGGACGGCTGCATCGTG
TTTGACGTCATTGCCTACGAGGACAACAGCCTCTACCAGCTCTTCTACCTGGCCAACCTG
AACCAGGACTTCAAGGAGAACTCCAGGCTCACCTCGGTCCCCACCCTCAGGAGGTTTGCC
GTGCCCCTCCACGTGGACAAGAATGCAGAAGTGGGCACAAATTTAATCAAAGTGGCATCT
ACAACAGCCACGGCCCTGAAGGAAGAAGATGGCCAAGTCTACTGCCAGCCGGAATTTCTT
TATGAAGGCTTAGAGCTTCCACGGGTCAATTATGCTCACAATGGAAAGCAATACCGATAT
GTCTTTGCTACAGGAGTTCAGTGGAGTCCAATCCCAACCAAGATAATAAAATATGACATT
CTCACAAAGTCATCCTTAAAATGGAGAGAGGACGACTGCTGGCCAGCGGAACCCCTGTTT
GTGCCCGCGCCAGGTGCCAAGGATGAGGATGACGGAGTAATCTTATCAGCCATTGTCTCT
ACTGATCCCCAAAAGCTGCCTTTTCTGCTCATTCTGGATGCCAAAAGCTTTACGGAATTG
GCCCGTGCCTCTGTTGATGTCGATATGCACATGGATCTCCATGGATTATTCATTACAGAC
ATGGACTGGGACACAAAAAAGCAGGCCGCTTCTGAGGAACAGCGGGACAGGGCTTCCGAC
TGCCACGGGGCTCCTCTGACCTGA
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Restriction Sites: Please inquire

ACCN: NM_017429

Insert Size: 1600 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:	NM_017429.2, NP_059125.2
RefSeq Size:	2446 bp
RefSeq ORF:	1644 bp
Locus ID:	53630
UniProt ID:	Q9HAY6
Cytogenetics:	16q23.2
Protein Pathways:	Metabolic pathways, Retinol metabolism
Gene Summary:	Vitamin A metabolism is important for vital processes such as vision, embryonic development, cell differentiation, and membrane and skin protection. The protein encoded by this gene is a key enzyme in beta-carotene metabolism to vitamin A. It catalyzes the oxidative cleavage of beta,beta-carotene into two retinal molecules. [provided by RefSeq, Jul 2008]