

Product datasheet for **SC126312**

BCO2 (BC041656) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	BCO2
Synonyms:	b,b-carotene-9',10'-dioxygenase; B-DIOX-II; BCDO2; beta,beta-carotene 9',10'-dioxygenase variant 1; beta-carotene 9',10' oxygenase; beta-carotene dioxygenase 2; beta-carotene oxygenase 2; FLJ34464
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF:

>OriGene sequence for BC041656 edited
 GTGCGTGTCTCACTGTTTAGTAGTACTCAAACTGCCAGTGTGAGAGGATTTGGAAATCAC
 TGGATCTGCTCAATACAAAAATGTTTTTCGAGTCTTTCTCCATTTTATCAGGAGTCATT
 CTGCCACTGCAGTGGATTTCCTTCTGTGATGGTGCACCGGCTCCAGTTTTCAAAAGGT
 ACATGGGAAATACTCCTCAGAAAAAGCCGCTTTGGGCAGTGTGGGGTCTGCCATGTG
 TTGCACCGCTGCTGACCACAGTGAAGAGGCTCCACGGGGCATCTCTGCTCGAGTCTGGG
 GACATTTTCCTAAGTGGCTCAATGGCTCTCTACTTGAATTGGACCTGGGAAATTCGAGT
 TTGGGAAGGATAAGTACAATCATTGTTTATGTTGGGATGGCGTGTTCACCAAGTTCAGAA
 TGGCAAAGGGCACAGTGACATACAGGAGCAAGTTTCTACAGAGTGATACATATAAGGCCA
 ACAGTGCTAAAAACCGAATTGTGATCTCAGAAATTTGGCACACTGGCTCTCCCGATCCAT
 GCAAGAATGTTTTGAACGTTTCATGTCCAGGTTTGAGCTGCCTGGTAAAGCTGCAGGTT
 TCTCCTATAAGGTTATTTCGGGTTCTCCAGAGAAGGTGGACCTTGGGGAGACAATCCATG
 GAGTCCAGGTGATATGTTCTATTGCTTCTACAGAGAAAGGAAACCTTCTTACTACCATA
 GCTTTGGAATGACAAGGAATATATAATTTTCATTGAACAACCTCTAAAGATGAACCTGT
 GGAAATTTGCCACTTCTAAAAATTCGGGAAAGGCCTTTTCAGATGGGATAAGCTGGGAAC
 CCCAGTGTAATACGCGGTTTCATGTGGTGGAAAAACGCACTGGACAGCTCCTTCCAGGGA
 GATACTACAGCAAACTTTTGTACATTTTCATCAATCAATGCCTTTGAGGACCAGGGCT
 GTGTTATAATTGATTTGTGCTGTCAAGATAATGGAAGAACCCTAGAAGTTTACCAGTTAC
 AGAATCTCAGGAAGGCTGGGAAGGCTTGATCAGGTCCTAATTCAGCAGCCAAATCTT
 TCCCTCGAAGGTTTGTTCCTTTAAATGTCAGTTTGAATGCCCTGAGGGAGACAACC
 TGAGTCCATTGTCTATACTTCAGCCAGTGTGTGAAACAGGCTGATGGAACGATCTGGT
 GCTCTCATGAAAACTACATCAGGAGGACCTAGAAAAGGAAGGAGGCATTGAATTCCTC
 AGATCTACTATGATCGATTGAGTGGCAAAAGTATCATTCTTTTATGGCTGTGGCTTTC
 GGCATTTAGTGGGGGATTCTCTGATCAAGGTTGATGTGGTGAATAAGACACTGAAGGTTT
 GGAGAGAAGATGGCTTTATCCCTCAGAACCTGTTTTGTTCCAGCACCAGGAACCAATG
 AAGAAGATGGTGGGGTATTCTTTCTGTGGTGATCACTCCCAACCAAGATGAAGCAATT
 TTCTCTAGTTTTGGATGCCAAGAACTTTGAAGAGCTGGCCGAGCAGAGGTACCTGTGC
 AGATGCCTTATGGGTTCCATGGTACCTTCATACCCATCTGATGGGACAACCAAGGTCT
 GGAACTAGGTTTTAAATAAGTGTGCACTTGGACATAAAGACTGGAGAAATAAACACTGA
 GGACTCCAAAGGGGGGCAAGGAGGAAGAGGGGCAAGGGTTAAAAAGCTACCTATTGAAT
 ACTATGTTCCCTATTTGGGTGATGGGTTTCGTTAGAAGTCCAAACCTCAGCAGCACACAAT
 ATACTCATGTAACAAGCCTGCACATGTACCCAGAACTTAAATAAAAAATAAAAAAGAAA
 ACAAAAGAAA

5' Read Nucleotide

Sequence:

>OriGene 5' read for BC041656 unedited
 TCTGAATTTGTAATACGACTTACTATAGGGNCGGACCGGNAATTCCTGGGATGTGCGTG
 TTCCTGTTTAGTAGTACTCAAACTGCCAGTGTGAGAGGATTTGGAAATCACTGGATCT
 GCTCAATACAAAAATGTTTTTCGAGTCTTTCTCCATTTTATCAGGAGTCATTCTGCCAC
 TGCAGTGGATTTCCTTCTGTGATGGTGCACCGGCTCCAGTTTTCAAAAGGTACATGGG
 AAATACTCCTCAGAAAAAGCCGCTTTTGGGCAGTGTGGGGTCTGCCATGTGTTGCACC
 GCTGCTGACCACAGTGAAGAGGCTCCACGGGGCATCTCTGCTCGAGTCTGGGGACATTT
 TCCTAAGTGGCTCAATGGCTCTCTACTTGAATTGGACCTGGGAAATTCGAGTTTGGGAA
 GGATAAGTACAATCATTGTTTGTGATGGGATGGCGTGTTCACCAAGTTTCAAGTGGCAAA
 GGGCACAGTGACATACAGGAGCAAGTTTCTACAGAGTGATACATATAAGGCCAACAGTGC
 TAAAAACCGAATTGTGATCTCAGAAATTTGGCACACTGGCTCTCCCGATCCATGCAAGAA
 TGTTTTTGAACGTTTCATGTCCAGGTTTGAGCTGCCTGGTAAAGCTGCANGTTTCTCCTA
 TAAGGTTATTTCGGGTTCTCCAGAGAAAGTGGACCTTGGGGAGACAATCCATGGAGTCCA
 GGTGATATGTTCTATTGCTTCTACAGAGAAAGGAAACCTTCTTACTACCATAGCTTTGG
 AAATGACAGGAACTATATATNTTTCATTGAACAACCTCTAAAGATGAACCTGTGGNAAA
 ATTGCCACTTTCTAAATTCNNGGGAAAGGCCCTTTTCAGATGGGGATAAAGCTGGGAACC
 CCAAGTGAATACGCCGTTTNCATGTGTGGGAAACGCACTGGACAGCTCCTTCCAGGGA

Restriction Sites:

NotI-NotI

ACCN:

BC041656

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC041656.1 , AAH41656.2
RefSeq Size:	1908 bp
Locus ID:	83875
Cytogenetics:	11q23.1
Gene Summary:	This gene encodes an enzyme which oxidizes carotenoids such as beta-carotene during the biosynthesis of vitamin A. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]