

Product datasheet for **MC217460**

Bco1 (NM_001163028) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bco1 (NM_001163028) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bco1
Synonyms:	Bcd; Bcdo; Bcdo1; Bcmo; Bcmo1; beta-C; beta-CD; betaCM; betaCMOOX; Cm; CMO1; Cmoi
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217460 representing NM_001163028
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGATAATATTTGGCCAGAATAAGAAAGAACAGCTGGAGCCAGTTCAGGCCAAAGTGACAGGCAGCA
 TTCCAGCATGGCTGCAGGGGACCCTGCTCCGAAACGGGCCGGGATGCACACAGTGGGAGAGCAAGTA
 CAACCATTGGTTTGGTGGCCTGGCCCTTCTCCACAGTTTCTCCATCAGAGATGGGAGGTCTTCTACAGG
 AGCAAATACCTGCAGAGTGACACCTACATCGCCAAACATTGAGGCCAACAGAATCGTGGTGTCTGAGTTCTG
 GAACCATGGCCTACCCGGACCCCTGCAAAAACATCTTTTCCAAAGCTTTCTCTACTTGTCTCACACCAT
 CCCCAGCTTACAGACAACCTGTCTGATCAACATCATGAAATGTGGAGAAGACTTCTATGCAACCACGGAG
 ACCAACTACATCAGGAAAATCGACCCCCAGACCCTAGAGACCTTGGAGAAGGTTGATTACCGGAAGTATG
 TGGCGGTAAACCTGGCTACCTCGCACCCCTCATTATGACGAGGCTGGGAATGTCTTAACATGGGCACATC
 CGTCGTGGACAAAGGGAGGACAAAATACGTGATATTTAAGATCCCTGCCACAGTCCAGACAGCAAGAAG
 AAAGGGAAGAGTCCCGTGAAGCACGCGGAAGTTTTCTGCTCCATTTCCTCCCGCTCGTTGCTCTCTCCCA
 GCTACTACCACAGCTTTGGTGTACGGAGAACTATGTGGTGTCTTCTGGAGCAGCCTTTAAAGTTGGATAT
 CCTCAAGATGGCCACCGCATACATGAGGGGAGTGAGCTGGGCTTCTGTATGTCATTTCGACAGGGAGGAC
 AAGACATACATTCATATCATCGACCAGAGGACCAGGAAGCCTGTGCCTACCAAGTTCTACACAGATCCCA
 TGGTGGTCTTCCATCATGTCAATGCCTACGAGGAGGACGGCTGTGTGCTGTTTGTATGTGATCGCCTATGA
 GGACAGCAGCCTATACAGCTCTTCTACCTGGCCAACCTGAACAAGGACTTCGAGGAGAAGTCCAGGCTG
 ACCTCAGTGCCTACCCTCAGGAGGTTTGTGTGCCCTCCATGTGGACAAGGATGCAGAAGTGGGCTCAA
 ATTTAGTCAAGGTGTATCTACAACCTGCAACAGCCCTGAAGGAGAAAGACGGCCATGTCTATTGCCAGCC
 CGAGGTCCTCTACGAAGGCCTAGAGCTCCCTCGGATAAATTATGCTTACAACGGGAAGCCATATCGCTAC
 ATCTTTGCAGCTGAAGTACAGTGGAGTCCAGTCCCAACCAAGATACTGAAATATGACATTCTCACAAAGT
 CCTCCTTAAAGTGGTCTGAGGAGAGCTGCTGGCCAGCAGAGCCTCTGTTTGTCCACGCCAGGTGCGAA
 GGATGAAGATGATGTCCCTTGCAGGCCAAGCAGAGACTGTGGAGTCCAAGGGCCCATCGTAAATCACAT
 TGTGAGCTGAGCATAGCATGTGTGCTGAGATCTCAGCATTGGGAGGCAGACAGAAGACAATCAGGGGT
 CTACAGTCATTCTCAGATATACAGAGAATTTGAACTACT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001163028

Insert Size: 1581 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_001163028.1](#), [NP_001156500.1](#)

RefSeq Size: 2532 bp

RefSeq ORF: 1581 bp

Locus ID: 63857

Cytogenetics: 8 E1

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. Two alternatively spliced variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2009]

Transcript Variant: This variant (2) includes an alternate exon in the 3' coding region resulting in a frameshift, compared to variant 1. It encodes isoform 2 which has a shorter and distinct C-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.