

Product datasheet for **MC217633**

Bco2 (NM_133217) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bco2 (NM_133217) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bco2
Synonyms:	B-diox-II; Bcdo2; Bcmo2; CMO2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217633 representing NM_133217
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGGGACCGAAGCAGAGCCTGCCATGCATTGCCCACTGCTGACCACGGCGGAGGAGACTCTGAGTG
 CTGTCTCTGCTCGGGTCCGAGGACATATTCCTGAATGGCTTAATGGTTATCTACTTCGAGTTGGACCTGG
 GAAGTTTGAATTTGGGAAGGATAGATACAATCATTGGTTTGTGGAATGGCGTTGCTTCACCAGTCCGA
 ATGGAGAGGGGCACAGTGACATAACAAGACAAGTTTCTACAGAGTGACACATATAAGGCCAACAGTGCTG
 GAGGTAGAATTGTGATCTCAGAAATTTGGCACGCTGGCCCTTCTGACCCATGCAAGAGCATCTTTGAACG
 TTTTCATGTCAAGTTTGGCCACCTACTATGACTGACAACACCAACGTCAACTTTGTGCAGTACAAAGGT
 GATTACTACATGAGCACAGAGACTAATTTTATGAATAAGGTGGACATTGAGATGCTGAAAGGACAGAAA
 AGGTGGACTGGAGCAAATTCATTGCTGTGAATGGAGCCACTGCACATCCTCATTACGACCCAGATGGGAC
 AGCATACAACATGGGGAACAGCTATGGGCCAAGAGTTCTTGCTATAATATTATTCGTGTTCTCCAAAA
 AAGAAAGAGCCCCGGGAGACGATTACGGAGCACAGGTGCTATGTTCCATTGCCTCCACTGAGAAAATGA
 AGCCTTCTTACTACCATAGCTTTGGAATGACAAAAAACTACATAATCTTTGTCGAACAGCCTGTAAGAT
 GAAGCTGTGGAAAATAATCACTTCTAAAATCCGGGGAAAGCCCTTTGCTGATGGGATAAGCTGGGAGCCC
 CAGTATAACACGCGGTTTCATGTGGTGGATAAACACACTGGACAGCTTCTCCAGGAATGTACTACAGCA
 TGCCTTTTCTTACCTATCATCAAATCAATGCCTTTGAGGACCAGGGCTGTATTGTGATTGATCTGTGCTG
 CCAGGATGATGGGAGAAGCCTAGACCTTACCAACTACAGAATCTCAGGAAAGCTGGAGAGGGCTTGAT
 CAGGTCTATGAGTTAAAGCAAAGTCTTCCCTCGAAGATTTGTCTTGCCTTAGATGTTAGTGTGGATG
 CTGCTGAAGGAAAGAACCTCAGCCCACTGTCTATTCTCAGCCAGCGCTGTGAAACAGGGTGATGGAGA
 GATCTGGTGCTCTCTGAAAATCTACACCAGAAAGACCTGGAAGAGGAAGGGGGATTGAATCCCTCAG
 ATCAACTATGGCCGATTCAATGGCAAAAAGTATAGTTTCTTCTATGGCTGCGGTTTTCGACATTTGGTGG
 GGGATTCTCTGATTAAGTTGACGTGACGAACAAGACACTAAGGGTTTGGAGAGAAGAAGCTTTTATCC
 CTCGGAGCCCGTTTTTGTCCGGTGCCAGGAGCAGATGAGGAAGACAGTGGGGTTATACTCTCTGTGGTG
 ATCACTCCAACAGAGTGAAAGCAACTTCTCCTTGTCTTGGATGCCAAGAGCTTACAGAGCTGGGGC
 GAGCGGAAGTACCGTGCAGATGCCTACGGGTTCCATGGCACCTTTGTGCCTATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_133217

Insert Size: 1599 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_133217.3](#), [NP_573480.1](#)

RefSeq Size: 2093 bp

RefSeq ORF: 1599 bp

Locus ID: 170752

UniProt ID: [Q99NF1](#)

Cytogenetics: 9 A5.3

Gene Summary: Asymmetrically cleaves beta-carotene at the 9',10' double bond resulting in the formation of beta-apo-10'-carotenal and beta-ionone. Besides beta-carotene, lycopene is also oxidatively cleaved. The apocarotenals formed by this enzyme may be the precursors for the biosynthesis of retinoic acid or exert unknown physiological effects.[UniProtKB/Swiss-Prot Function]