

Product datasheet for **MC212983**

Cbr4 (NM_145595) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cbr4 (NM_145595) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cbr4
Synonyms: A730083J17Rik; BC009118
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC212983 representing NM_145595
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGACAAAGTCTGTGCGGTTTTGGAGGCTCCCGGGGATCGGCAGGGCGGTAGCCAGCTAATGGCCC
AGAAGGGTTACCGTCTGGCGATCGTCTCCAGAACTGGAAGTGCCAAAGTCACCGCCGGCAGCTCGG
CGGAAACCACTTGGCATTAGGTGTGATGTTGCCAAAGAACAAGATGTTTCAGAGTACATTTCAAGAGATG
GAGAAACATTTAGGTCCAGTAAATTTCTGGTAAATGCAGCCGGTATCAACAGAGACAGTCTTCTAGTAA
GAACAAAGACTGAAGACATGATCTCTCAGCTGCACACTAACCTCCTGGGCTCCATGCTGACCTGTAAGC
TGCCATGAAGACAATGATTCAGCAGGGAGGGTCTATTGTTAATGTGGGAAGTATTATTGGTTTGAAGGC
AACGTTGGCCAGTCTGCATACAGTGCCACCAAAGGAGGACTCGTTGGGTTTTACGCTCGCTTGCTAAAG
AGGTTGCACGGAAGAAAATCAGAGTGAATGTGGTGGCACCAGGATTTATTCGCACGGATATGACAAGACA
CTTGAAAGAAGAACACTTCAAGAAAAACATTCCTCTTGGGAGGTTTGGAGAACTCTTGAGGTAGCAT
GCCGTTGTGTTTCTTTTAGAGTACCATACATCACAGGCCATGTTCTTATCGTGGATGGAGGATTGCAGC
TCACCGT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_145595
Insert Size: 711 bp



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| 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: | NM_145595.2 , NP_663570.2 |
| RefSeq Size: | 1115 bp |
| RefSeq ORF: | 711 bp |
| Locus ID: | 234309 |
| UniProt ID: | Q91VT4 |
| Cytogenetics: | 8 B3.1 |
| Gene Summary: | The heterotetramer with HSD17B8 has NADH-dependent 3-ketoacyl-acyl carrier protein reductase activity, and thereby plays a role in mitochondrial fatty acid biosynthesis. Within the heterotetramer, HSD17B8 binds NADH; CBR4 binds NADPD. The homotetramer has NADPH-dependent quinone reductase activity. Both homotetramer and the heterotetramer have broad in vitro substrate specificity and can reduce 9,10-phenanthrenequinone, 1,4-benzoquinone and various other o-quinones and p-quinones.[UniProtKB/Swiss-Prot Function] |