

Product datasheet for **MG216862**

Cbr4 (NM_145595) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cbr4 (NM_145595) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cbr4
Synonyms: A730083J17Rik; BC009118
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG216862 representing NM_145595
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAAAGTCTGTGCGGTTTTGGAGGCTCCCGGGGATCGGCAGGGCGGTAGCCAGCTAATGGCCC
AGAAGGGTTACCGTCTGGCGATCGTCTCCAGAAACCTGGAAGTGGCCAAAGTCACCGCCGGCGAGCTCGG
CGGAAACCACTTGGCATTAGGTGTGATGTTGCCAAGAACAAGATGTTCCAGAGTACATTTCAAGAGATG
GAGAAACATTTAGGTCCAGTAAATTTCTGGTAAATGCAGCCGGTATCAACAGAGGCAGTCTTCTAGTAA
GAACAAAGACTGAAGACATGATCTCTCAGCTGCACACTAACCTCCTGGGCTCCATGCTGACCTGTAAGC
TGCCATGAAGACAATGATTCAGCAGGGAGGGTCTATTGTTAATGTGGGAAGTATTATTGGTTTGAAGGC
AACGTTGGCCAGTCTGCATACAGTGCCACCAAAGGAGGACTCGTTGGGTTTTACGCTCGCTTGCTAAAG
AGGTTGCACGGAAGAAAATCAGAGTGAATGTGGTGGCACCAGGATTTATTCGCACGGATATGACAAGACA
CTTGAAAGAAGAACAACCTCAAGAAAAACATTCCTCTTGGGAGGTTTGGAGAACTCTTGAGGTAGCACAT
GCCGTTGTGTTTCTTTAGAGTCACCATACATCACAGGCCATGTTCTTATCGTGGATGGAGGATTGCAGC
TCACCGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG216862 representing NM_145595
Red=Cloning site Green=Tags(s)

MDKVCVAVFGGSRGIGRAVAQLMAQKGYRLAIVSRNLEVAKVTAGELGGNHLAFRCDDVAKEQDVQSTFQEM
 EKHLGPVNFLVNAAGINRGSLLVRTKTEDMISQLHTNLLGSMLTCKAAMKTMIIQQGGSIVNVGSIIGLKG
 NVGQSAYSATKGGGLVGFSRSLAKEVARKKIRVNVVAPGFIRTDMTRHLKEEHFKKNIPLGRFGETLEVAH
 AVVFLLESPYITGHVLIVDGGLQLTV

TRTRPLE - GFP Tag - V

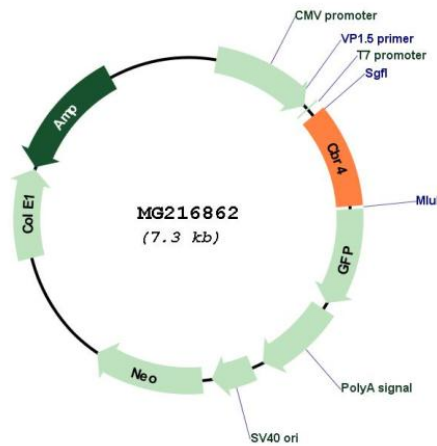
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_145595

ORF Size: 708 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_145595.1
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]