

Product datasheet for RN214759

Cbr4 (NM_182672) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cbr4 (NM_182672) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cbr4
Synonyms:	MGC105271
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN214759 representing NM_182672 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAAAGTCTGTGCGGTTTTGGAGGCTCCCGGGCATCGGCAAGGCTGTAGCCAGCTAATGGCCC
AGAAGGGTTACCGCTGGCGATCGTCGCCAGAACTTGGAAAGTGCCAAAGCCACTGCGAGCGAGCTCGG
CGGAATCCACTTGGCATTAGGTGCAACATTGCCAAAGAAGGAGATGTTACAGTACATTTGAAGAGATG
GAGAAACATTTAGGTCCAGTAAATTTCTGGTAAATGCAGCTGGTATTAACAGAGACAGTCTTTAGTAA
GAACAAAACTGAAGATATGCTGTCTCAGCTTCATACCAACCTCTGGGCACCATGCTGACCTGCAGAGC
CGCTATGAGGACAATGATTCAGCAGGGCGGGTCTATTGTTAATGTCGGGAGTATTATTGGTTTTAAAGGC
AATGTGGGCCAGGCCGATATAGTGCCACCAAAGGAGGGCTTATCGGGTTTTACGCTCGCTTGCTAAAG
AGGTTGCCCGGAAGAAAATCAGAGTGAATGTGGTTGCACCAGGATTTATTCACACGGATATGACAAAACA
CTTGAAAGAAGAACATTTCAAGAAAAACATCCCTCTGGGAGGTTTGGAGAAGCTCTTGAGGTGGCCAT
GCCGTTGTGTTCTTTTAGAGTCACCATACATCACAGGACATGTTCTTATCGTGGATGGAGGATTACAGC
TCACTGCC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_182672
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_182672.2 , NP_872613.1
RefSeq Size:	1187 bp
RefSeq ORF:	711 bp
Locus ID:	359725
UniProt ID:	Q7TS56
Cytogenetics:	16p12
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]