

Product datasheet for **SC127775**

CBR4 (NM_032783) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CBR4 (NM_032783) Human Untagged Clone
Tag:	Tag Free
Symbol:	CBR4
Synonyms:	SDR45C1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127775 sequence for NM_032783 edited (data generated by NextGen Sequencing)

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ATGGACAAAGTGTGTGCTGTTTTTGGAGGCTCCCGAGGCATTGGCAGAGCTGTGGCCAG
TTAATGGCCCGAAAGGCTACCGACTGGCGGTCATTGCCAGAAACCTGGAAGGGCCAAA
GCCGCCGCGGTGACCTCGGCGGAGATCATTTGGCATTAGCTGTGATGTTGCTAAAGAA
CATGATGTTCAAATACATTTGAAGAGATGGAGAAACATTTAGGTCGAGTAAATTTCTTG
GTAAATGCAGCTGGTATTAACAGGGATGGTCTTTTAGTAAGAACAAAACTGAAGATATG
GTATCTCAGCTTCATACTAACCTCTTGGGTTCCATGCTGACCTGTAAAGCTGCCATGAGG
ACTATGATTCAACAACAGGGAGGGTCTATTGTTAATGTAGGAAGCATTGTTGGCTTAAAA
GGCAACTCTGGCCAGTCCGTTTACAGTGCCAGTAAAGGAGGATTAGTTGGATTTTACGT
GCTCTTGCTAAAGAGGTAGCAAGAAAGAAAATTAGAGTGAATGTAGTTGCACCAGGATTT
GTACACACAGATATGACGAAAGACTTGAAAGAAGAACATTTAAAGAAAAATATTCCTCTT
GGGAGGTTTGGAGAACTATTGAGGTGGCACATGCGGTTGTGTTTCTTTTAGAATCACCG
TATATTACAGGCATGTTCTGGTAGTGGATGGGGGATTACAACCTATTTTGTA

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Clone variation with respect to NM_032783.4
208 c=>a



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_032783 unedited</p> <pre>TACTATAGGGCGGCCGCAATTCGGCACGAGGGAGGTGTCGAGCGGCGTTATTTTTTTTT GCGGTTTGCCTTTTTTTTTTTTTTTTTTTTTTTGGAACCGCGGTTGTTTAAAAGCCTGAG GGAACCTGGAGGGGGGCTCCCACTCTCTACCTTCTTCCAGTTTGTGACTCCGAGA TGGACAAAGTGTGTGCTGTTTTGGAGGCTCCCGAGGCATTGGCAGAGCTGTGGCCCAAGT TAATGGCCCGGAAAGGCTACCGACTGGCGGTATTGCCAGAACTGGAAGGGGCCAAAG CCGCCCGGTTGACCTCGCGGAGATCATTGGCATTAGCTGTGATGTTGCTAAAGAAC ATGATGTTCAAAAATACATTTGAAGAGATGGAGAAACATTTAGGTCGAGTAAATTTCTTGG TAAATGCAGCTGGTATTAACAGGATGGTCTTTTAGTAAGAACAATAAACTGAAGATATGG TATCTCAGCTTCACTAACCTCTTGGGTTCCATGCTGACCTGTAAGCTGCCATGAGGA CTATGATTCAACAACAGGGAGGGTCTATTGTTAATGTANGAAGCATTGNTGGCTAAAAG GCAACTCTGGCCAGTCCGTTTACAGTGCCAGTAAAGGAGGATTAGTTGGATTTTTACGT GCTCTTGCTAAAGAGGGTAGCAGAAAGAAAATAGAGTGAATGTAGTTGCACCCAGTGACA TACTTGTATGGGGAGTTATTTGCACATTTGCAAGTATATGAAGTGAATCTTGGGACTG GAACTGCNAANNCTCANAGGATTTGTACACAGATATGACGAAAGACTGAAAGAGAAC ATTTAAGAAAAATATTCTCTTGGGAGGNTGAGAACTATGAGTGGCCATGCGGGTGTGT TCTTTAAATCACTTATACAGGCATGTNCTGGATGAATGGGGATACACTCATTGTATTGCG ATATCAGTTTAGGGGATACATCAGGCACCTTGTACTGTA</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_032783 unedited</p> <pre>ATGGACCGCGGCCCACTCNAGATCGAGTTTTTTTTTTTTTTTTTTTTTAAAATCATTAAATA CTTTATTTAAGAACAGTTTGTACCAAGTTAGGACAGTGGTTATGATTTCTCAATTTAC ACATATTCCTTTTAAAACTTAGAAAAATGTTTCACCAATGTTAAGGTACAACCTTG AATATGCAGCGTAGTCTTCTCTTTATTCTGAATAACAGAAGCACGTAATTAATTAAT CCTCTTTGCACAATTATCCCCCAAACTAATTTATAACATATAATTATCTCCCTAAAA AGCAGTTACAAACCATAAATGAATATGAATAAAATATGAAAAAGACACAAATTTTAAA GCCCTCCATGCAAAAAAAATTAATACATTGGCTTTACCTATAAACCTTATTTTGTAAAT GCTAAGCACAGAACCTTATGGGCTCATAGGAGTCAGCAAACAGCTACAGATGAGTCTTC TTGTTAAGAATTCATTCAATGCTTCTCAGAATAGCAGATTTTAAAAATGAATTCAGTGA GGTTCTTAAACCTCTGAACATAAGGCAACAGTTCACAACCTGATTTTCAAGAAATAGAAGTA AGTATTAATTAACAATCTACTAGGTCAGTGGGAGTGGGCGGATTCACCTGGAGTGGAG CAGTGAAGGTTTTATTTTACCTCTTTCAAGATCTCTCCATATATTCCACCGATTTGAGATA GGCTGGGGAGGAGTGAATAGCTTAAAGGTTATTTTCTTATTTTAAAGTATAAAACAT ACACTTAAAGGCTNAACTATCTATACCTACATCTAATGTCAGCAAACATACTGCTTTCTAC CCAATCACCANTGATCAGCCTCGCTCATGATTCGAGCATAAGGTGTCCGAGAAAAAAC TCNAGATGNATGGGCTGCCATATGGGGAAGTACAGTAGCCAAGGCCACATTGAGACAGCT ANAGAACTTCTACTTGNCTGAATAGCCN</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_032783
Insert Size:	3270 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_032783.3](#), [NP_116172.2](#)

RefSeq Size: 3474 bp

RefSeq ORF: 714 bp

Locus ID: 84869

UniProt ID: [Q8N4T8](#)

Cytogenetics: 4q32.3

Domains: adh_short

Protein Families: Druggable Genome

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 (PubMed:19571038, PubMed:25203508). Within the heterotetramer, HSD17B8 binds NADH; CBR4 binds NADPD (PubMed:25203508). The homotetramer has NADPH-dependent quinone reductase activity (PubMed:19000905). Both homotetramer and the heterotetramer have broad substrate specificity and can reduce 9,10-phenanthrenequinone, 1,4-benzoquinone and various other o-quinones and p-quinones (in vitro) (PubMed:19000905, PubMed:19571038, PubMed:25203508).[UniProtKB/Swiss-Prot Function]