

Product datasheet for SC123775

CBR3 (BC002812) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CBR3 (BC002812) Human Untagged Clone
Tag:	Tag Free
Symbol:	CBR3
Synonyms:	carbonyl reductase (NADPH) 3; carbonyl reductase 3; hCBR3; NADPH-dependent carbonyl reductase 3; SDR21C2; short chain dehydrogenase/reductase family 21C, member 2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC002812 edited

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ACACTAGCTGGGCTCCTCGGGCGCGCCCCAGGTGGTCCGAAGCCCGGTCCGCCCTCCAC
GCAGGTGCCCCGCGCTCCCCGCTCAGCCATGTCGTCTGCAGCCGCGTGGCGTGGTGAC
CGGGGCCAACAGGGGCATCGGCTTGGCCATCGCGCGCGAACTGTCCGACAGTTCTCTGG
GGATGTGGTGCTCACCGCGGGGACGTGGCGCGGGGCCAGGCGCCGTGCAGCAGCTGCA
GGCGGAGGGCCTGAGCCCGCGCTTCCACCAACTGGACATCGACGACTTGCAGAGCATCCG
CGCCCTGCGCGACTTCTGCGCAAGGAGTACGGGGGGCTCAATGTAAGTCAACAACGC
GGCCGTGCGCTTCAAGAGTGATGATCCAATGCCCTTTGACATTAAGCTGAGATGACACT
GAAGACAAATTTTTTGGCCACTAGAAACATGTGCAACGAGTTACTGCCGATAATGAAACC
TCATGGGAGAGTGGTGAATATCAGTAGTTTGCAGTGTAAAGGGCTTTGAAAACGCAG
TGAAGATCTGCAGGAAAGTTCCACAGTGAGACTCACAGAAGGAGACCTGGTGGATCT
CATGAAAAAGTTTGTGGAGGACACAAAAATGAGGTGCATGAGAGGGAAGGCTGGCCAA
CTCACCTTATGGGGTGTCCAAGTTGGGGTCCACAGTCTTATCGAGGATCCTGGCCAGGCG
TCTGGATGAGAAGAGGAAAGCTGACAGGATTCTGGTGAATGCGTGTGCCAGGACCAAGT
GAAGACAGACATGGATGGAAAGACAGCATCAGGACTGTGGAGGAGGGGGCTGAGACCCC
TGTCTACTTGGCCCTCTTGCCTCCAGATGCCACTGAGCCACAAGGCCAGTTGGTCCATGA
CAAAGTTGTGCAAACTGGTAAACGTCTGCTTCGGAGCTTGTCTTAATAAATGTTGGT
GAAATGAATGAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for BC002812 unedited GGTCAAAATTTGTATACGACTCACTATAGGGCGGCCGCGAATTCGCACGAGGACACTAGC TGGGCTCTCGGGGCGCGCCCCAGTGGTCCGAAGCCCGTCCGCCCTCCACGCAGGTGCC CCGCGCTCCCCGCTCAGCCATGTCGTCTGCAGCCGCGTGGCGCTGGTGACCGGGGCCAA CAGGGGCATCGGCTTGGCCATCGCGCGGAACTGTGCCGACAGTTCTCTGGGGATGTGGT GCTCACC GCGCGGACGTGGCGCGGGCCAGGCGGCCGTGCAGCAGCTGCAGGCGGAGGG CCTGAGCCCGCGCTTCCACCAACTGGACATCGACGACTTGCAGAGCATCCGCGCCCTGCG CGACTTCCTGCGCAAGGAGTACGGGGGGCTCAATGTACTGGTCAACAACGCGGCCGTGCG CTTCAAGAGTGATGATCCAATGCCCTTTGACATTAAGCTGAGATGACACTGAAGACAAA TTTTTTTGCCACTAGAAACATGTGCAACGAGTTACTGCCGATAATGAAACCTCATGGGAG AGTGGTGAATATCAGTAGTTTGCAGTGTTAAGGGCTTTTGAAAAGTGCAGTGAAGATCT GCANGAAAGTTCCACAGTGAGACTCACAGAAGGAGACCTGGTGGATCTCATGAAAAA GTTTGTGGAGGACACANAAAATGANGTGCATGANAGGGGAAAGCTGGCCCCACTCACCTT ATGGGGTGTCCAAGTTTGGGGTACAGTCTTATCGAGGATCCTGGCCAGGCGTCTGGAT GAGAAGAGNAAGCTGACAGGATTCTGGGTGATGCGTGCTGCCCCAGACAGTGAAGACGAC ATGGATGGGAAAAAGCATCAGACTGTGGAGGAAGGGGCTGAGACCCTGTCTACTTGCC TCTTGCCCTCAGATGCCCTGAA
Restriction Sites:	Please inquire
ACCN:	BC002812
Insert Size:	997 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:	<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:	<u>BC002812.2</u> , <u>AAH02812.1</u>
RefSeq Size:	988 bp
Locus ID:	874
Cytogenetics:	21q22.12
Protein Families:	Druggable Genome
Protein Pathways:	Arachidonic acid metabolism, Metabolic pathways

Gene Summary:

Carbonyl reductase 3 catalyzes the reduction of a large number of biologically and pharmacologically active carbonyl compounds to their corresponding alcohols. The enzyme is classified as a monomeric NADPH-dependent oxidoreductase. CBR3 contains three exons spanning 11.2 kilobases and is closely linked to another carbonyl reductase gene - CBR1. [provided by RefSeq, Jul 2008]