

Product datasheet for MR203724

Cbr1 (NM_007620) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cbr1 (NM_007620) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cbr1
Synonyms:	AW261796; Cbr; CR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203724 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTTCCAGCAGACCCGTGGCGCTGGTGACCGGTGCTAACAAAGGAATCGGATTCGCGATCACTCGTG
ACCTGTGTCGGAAATTCTCCGGGACGTGGTGCTCGCGGCGGGACGAGGAGCGGGCCAAACGGCAGT
GCAAAAGCTGCAGGCGGAGGGCCTGAGCCACGCTTCCACCAGCTGGACATCGACAACCCGAGAGCATT
CGCGCACTGCGCACTTTCTGCTCAAGGAATACGGAGGCCTGGACGTGCTGGTCAACAACGCAGGCATCG
CCTTCAAGGTCAATGACGACACCCCTTCCACATTCAAGCAGAGGTGACAATGAAAACGAACTTTTTTGG
TACCCGAGATGTCTGCAAGGAGCTGCTCCCTCTAATAAAACCCCAAGGCAGAGTGGTGAATGTGTCCAGC
ATGGTGAGTCTCAGGGCCCTGAAAACTGCAGGCTGGAGCTGCAGCAGAAGTTTCGAAGCGAGACCATCA
CAGAGGAGGAGCTGGTGGGGCTCATGAACAAGTTTGTGGAAGATACAAAGAAAGGAGTCCATGCGGAAGA
AGGTTGGCCTAATAGTGCATATGGGGTCAACAAGATTGGGGTGACAGTCTGTCCAGAATCCTTGCCAGG
AAACTCAATGAGCAGAGGAGAGGGGACAAGATCCTTCTGAATGCCTGCTGCCCTGGGTGGGTGAGAACCG
ACATGGCAGGACCAAAAGCCACCAAAAGCCAGAAGAAGGAGCAGAGACCCCTGTGACTTGGCCCTTTT
GCCTCCAGATGCAGAGGGCCCTCATGGGCAGTTTGTTCAGATAAAAAAGTTGAACCATGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203724 protein sequence
 Red=Cloning site Green=Tags(s)

MSSSRPVALVTGANKGIGFAITRDLCRKFSGDVVLAARDEERGQTAVQKLQAEGLSPRFHQLDIDNPQSI
 RALRDFLLKEYGGLDVLVNNAGIAFKVND DTPFHIQAEVTMKTNFFGTRDVCKELLPLIKPQGRVNVSS
 MVSLRALKNCRLELQQKFRSETITEEELVGLMKNFVEDTKKGVHAEEGWPNSAYGVTKIGVTVLSRILAR
 KLNEQRRGDKILLNACCPGWVRTDMAGPKATKSPEEGAETPVYLALLPPDAEGPHGQFVQDKKVEPW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007620

ORF Size: 834 bp

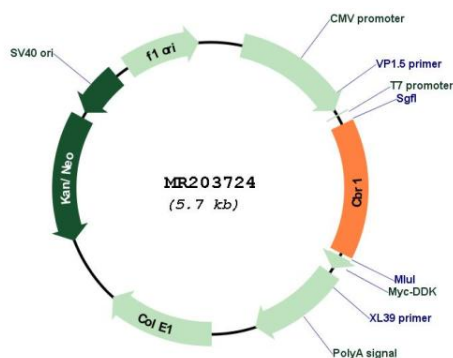
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_007620.1</u> , <u>NM_007620.2</u> , <u>NP_031646.2</u>
RefSeq Size:	1081 bp
RefSeq ORF:	834 bp
Locus ID:	12408
UniProt ID:	<u>P48758</u>
Cytogenetics:	16 54.53 cM
MW:	30.6 kDa
Gene Summary:	NADPH-dependent reductase with broad substrate specificity. Catalyzes the reduction of a wide variety of carbonyl compounds including quinones, prostaglandins, menadione, plus various xenobiotics. Catalyzes the reduction of the antitumor anthracyclines doxorubicin and daunorubicin to the cardiotoxic compounds doxorubicinol and daunorubicinol. Can convert prostaglandin E2 to prostaglandin F2-alpha. Can bind glutathione, which explains its higher affinity for glutathione-conjugated substrates. Catalyzes the reduction of S-nitrosogluthatione (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203724