

Product datasheet for **MR224532**

Cbfa2t3 (NM_001109873) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cbfa2t3 (NM_001109873) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cbfa2t3
Synonyms:	A630044F12Rik; AI465270; AW229127; Cbfa2t3h; ETO-2; Eto2; MTGR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224532 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGACTCCCCGGCTGAAGTGAAGACGCAGCCCCGGTCCACACCCCCAGCATGCCGCCCCACCTC
 CCACCTCATCCCAGGGAGCCACACGACCACCTCCTTACACCTCACACATGGCGAGGATGGACCTGC
 GACGTCTCTCCCATGGCCGTTTCCACGGCTGCTTAAAGTGGTCCATGGTCTGTCTCTTATGAACGGC
 AGCAGCCACTCACCCACGGCCATCCACGGTGCCCATCTACACCAATGGCTTACGAAACGGCCAGCCA
 CCTCATCCACGGCCTCGCTCTCCACACAGCACCTGCCCGGGCGTGGGGGCACGGCAGCTCAGCAAGCT
 TAAGCGTTTCTCACCACCCTACAGCAGTTTGGCAGTGACATCTCACCTGAGATCGGGGAGCGGTGCGC
 AACTGGTGTGGGCTGGTGAAGTCAACTCTGACGATCGAAGAGTTTCATGCCAAGCTCCAGGAAGCCA
 CCAACTTCCACTGAGGCCGTTTGTATCCCTTTCTGAAGGCTAATCTTCCACTGCTGCAGCGTGAGCT
 CCTGCACTGTGCCCGCTGGCCAAACAGACACCTGCCAGTACCTGGCCAGCACGAACAGCTGCTGCTG
 GACGCCAGCGCCACCTCCCTGTGACTCGTCTGAGCTCCTGCTGGAAGTCAACGAGAACGGCAAAGGA
 GAACACCTGACAGGACAAAGAGAATGGATCAGACCGGGACCCTCTGCACCCCGACCACCTCAGTAAAGC
 GTCTGACCCCTGAGCCCGCCAGCGCTGCAGCCCCAGCAATGGGCTGCCACCCGACGCCACCCCA
 CCCCCGACTATCGCCTGGAGGACATGGCCATGGCCACCATTTCCGGGACTCCTACCGCCATCCTGATC
 CCCGAGAGCTACGGGAACGCCACCGGCCCTGGCCATACCTGGTCTCGACAAGAAGAAGTATTGATCA
 CAGGCTCACAGAACCGAGTGGGAGAAAGTGAAGCACCTCAACAGTCTTCTGAACTGCATCATGGAC
 ATGGTGGAGAAGACCGGCGATCCCTCACCGTCTGCGCCGTTGTCAGGAGGCCGACCGTGAAGAACTCA
 ACCACTGGATCCGGTGTACAGTACTCTGAGGAGGGGAAGAAGGGCCCTACCCCATCTGCCCCGGT
 CCTCAACAGCTGCAGTGGCCCTGAGGGTCTCAGCTAGATGTTACCGGGACTTACGCCAGGACCCCTG
 TCTGGCTACATGCTGAAGAGATCTGGAGAAAGCTGAAGAAGCTGTGAATGAGGTGAAGCGCCAGGCCA
 TGTGAGAACTACAGAAAGCTGTGTCTGATGCGGAGCGCAAAGCCCATGAACTCATCACCACAGAGCGTGC
 CAAGATGGAACGAGCCCTGGCGGAGGCCAAGCGACAGGCCTCGGAGGATGCCCTGACTGTCATCAACCAG
 CAAGAGGACTCCAGCGAGAGCTGCTGAACTGCGGGCGCAAGGCCAGCGAGACGTGCAGTGGCTGTAACG
 CCGCCCGTACTGCGGGTCTTCTGTGAGCACAAGACTGGGAGAAACACCATCACGTGTGCGGCCAGAG
 TCTGCAGGGCCCCGCGGCTGCAGTGGCTGACCCACTACCTGGACAGCCTGACGCCACTGCCAGCCCAGC
 GAAGCCGGCTCGCAGGGCCCTCTCGTCCCTGCTCCTGGGGCCGCCAGGCCGCTGGACGCTGCTGTGC
 CCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224532 protein sequence
 Red=Cloning site Green=Tags(s)

MPDSPAIEVKTQPRSTPPSMPPPPPTSSQGATRPPSFTPHTHGEDGPATSLPHGRFHGCLKWSMVCLLMNG
 SSHSPTAIHGAPSTPNFSGNPATSSASLSTQHLPPACGARQLSKLKRFLTTLQQFGSDISPEIGERV
 TLVGLVNSTLTIEEFHAKLQEATNFPLRPFVIFLKANLPLLQRELLHCARLAKQTPAQYLAQHEQLLL
 DASATSPVDSSELLLEVNENGRRTDPRTKENGSDRDPLHPDHL SKRSTL SPAQRCSPSNGLPHPTPPP
 PPHYRLEDMAHHFRDSYRHPDREL RERHRPLAIPGSRQEEVIDHRL TEREWAEWHLNLSLLNCIMD
 MVEKTRRSLTVLRRQEADEELNHWIRCYSDSEEGKKGPTPI SARSLNSCSGPEGSQLDVHRDFPRTL
 SGYMPEE IWRKAEEAVNEVKRQAMSELQKAVSDAERKAHELITTERAKMERALAEAKRQASEDALTVINQ
 QEDSSESCWNCGRKASETCSGCNAARYCGSFQHKDWEKHHHVCGQSLQGPAAAVADPLPGQPDATASPS
 EAGSAGPSRPCSPGPPGLDAVPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001109873

ORF Size: 1755 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:**
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 Size: 7678 bp

RefSeq ORF: 1758 bp

Locus ID: 12398

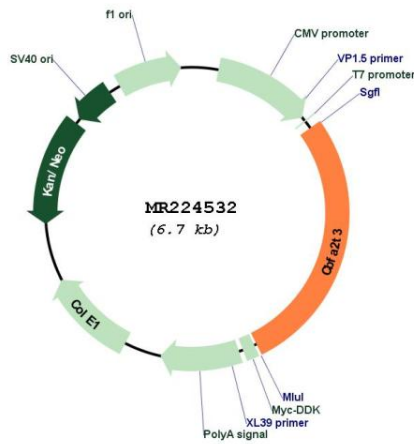
UniProt ID: [O54972](#)

Cytogenetics: 8 E1

MW: 64.5 kDa

Gene Summary: Transcriptional corepressor which facilitates transcriptional repression via its association with DNA-binding transcription factors and recruitment of other corepressors and histone-modifying enzymes. Can repress the expression of MMP7 in a ZBTB33-dependent manner. Reduces the protein levels and stability of the transcriptional regulator HIF1A; interacts with EGLN1 and promotes the HIF1A prolyl hydroxylation-dependent ubiquitination and proteasomal degradation pathway. Contributes to inhibition of glycolysis and stimulation of mitochondrial respiration by down-regulating the expression of glycolytic genes including PFKFB3, PFKFB4, PDK1, PFKP, LDHA and HK1 which are direct targets of HIF1A (By similarity). Regulates the proliferation and the differentiation of erythroid progenitors by repressing the expression of TAL1 target genes (PubMed:16407974). Plays a role in granulocyte differentiation (PubMed:15231665).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224532