

Product datasheet for MR229580

Cbfa2t2 (NM_001285446) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cbfa2t2 (NM_001285446) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cbfa2t2
Synonyms: A430091M07; C330013D05Rik; Cbfa2t2h; MTGR1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229580 representing NM_001285446
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGTTTCATGAAATGAAAGAGGCCAGTCCGGAAAGGAGGGACGAGAATAATTTTGAAGAGATA
CAGTTCCTCCTGAACCGCTGCCAAGAGAGTGTGTACTATCAGCCCTGCTCCTCGGCACAGTCCC GCCCT
CACTGTTCCCTTATGAATCCTGGGGCCAGTTCATCCTACTCCACCACCTCTTCAGCACTATACTACTA
GAAGACATTGCAACTTCTCACCTGTATCGGGAACCAACAAGATGCTAGAACACCGAGAAGTTCTGTGAGA
GGCACCACAATCTTAGTCTCAATGGAGGCTATCAAGATGAGTTGGTAGACCACCGTTTGACAGAAAAGGGA
GTGGGCTGATGAATGAAACACCTTGACCATGCACTGAATTGCATTATGGAAATGGTAGAAAACTAGG
CGCTCCATGGCAGTTCTGAGGCGCTGTCAGGAATCTGACCGTGAAGAACTCAACTATTGGAACGGCGGT
TTAATGAAAATACAGAGTTGAGGAAAAGTGGGACTGAGTTGGTCTCTAGGCAGCACAGCCCTGGGAGTAC
AGATTCTCTCAGCAACGATTCTCAGCGGGAATTTACCAGTAGACCAGCAACAGGATATGTGCTGTGGAG
TTTTGGAAGAAAACAGAAGAAGCCGTGAATAAGGTGAAAATTCAGGCCATGTCAGAGGTACAGAAGGCTG
TAGCTGAGGCAGAGCAAAAAGCCTTTGAAGTGATTGCAACGGAGAGAGCTCGAATGGAGCAGACCATAGC
GGATGTCAAACGGCAGGCTGCAGAAGATGCTTTCTGGTCAATGAGCAAGAAGAGTCCACAGAGAAC
TGCTGAACTGTGGCCGAAAAGCCAGTGAGACGTGCAAGTGGCTGCAACATTGCTCGCTACTGCGGCTCCT
TCTGCCAGCATAAGGACTGGGAGCGGCACCACCGCCTCTGTGGCCAGAGTCTACATGGCCACAGTCCCCA
CAGCCAGAGCAGGCCACTGCTCCCTGGAGGGCGGGGCTCAGCCAGGTCTGCTGACTGCAGTGTGCCAGC
CCAGCCCTGGACAAGACCTCAGTACCACCTCACGGTCTCAACACCTGCCTCTGTGACAGCCATTGATG
CCAACGGGCTC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR229580 representing NM_001285446
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MEVHGNGKRSPERRDENNFERDTPPEPPAKRVCTISAPRHSPTVPLMNPGGQFHPTPPPLQHYTL
 EDIATSHLYREPKNMLEHREVRERHHNLSLNGGYQDELVDHRLTEREWADEWKHLHDALNCIMEMVEKTR
 RSMAVLRRCQESDREELNYWKRRFNENTELRKTGTTELVSQRHSPGSTDLSNDSQREFTSRPATGYVPVE
 FWKKTTEEAVNKVKIQAMSEVQKAVAEAEQKAFEVIATERARMEQTIADVQRQAEDAFLVINEQEESTEN
 CWNCGRKASETCSGCNIARYCGSFCQHKDWERHHRLCGQSLHGHSPPHSQSRPLLPGGRGSARSADCSVPS
 PALDKTSATTSRSSTPASVTAIDANGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

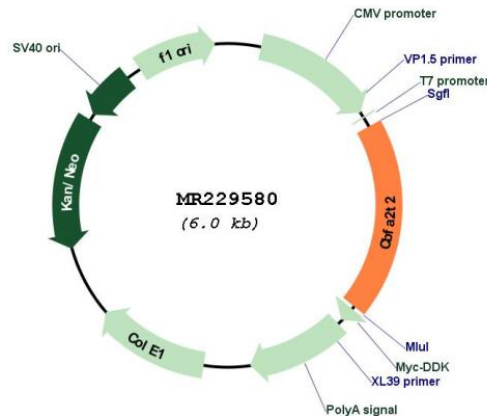
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001285446

ORF Size:	1131 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:	<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_001285446.1 , NP_001272375.1
RefSeq Size:	6076 bp
RefSeq ORF:	1134 bp
Locus ID:	12396
Cytogenetics:	2 H1
MW:	43.2 kDa
Gene Summary:	<p>Transcriptional corepressor which facilitates transcriptional repression via its association with DNA-binding transcription factors and recruitment of other corepressors and histone-modifying enzymes. Via association with PRDM14 is involved in regulation of embryonic stem cell (ESC) pluripotency. Involved in primordial germ cell (PCG) formation (PubMed:27281218). Stabilizes PRDM14 and OCT4 on chromatin in a homooligomerization-dependent manner. Can repress the expression of MMP7 in a ZBTB33-dependent manner (By similarity). Through heteromerization with CBFA2T3/MTG16 may be involved in regulation of the proliferation and the differentiation of erythroid progenitors by repressing the expression of TAL1 target genes (PubMed:19799863). Required for the maintenance of the secretory cell lineage in the small intestine (PubMed:16227606). Can inhibit Notch signaling probably by association with RBPJ and may be involved in GF11-mediated Paneth cell differentiation (PubMed:25398765).</p> <p>[UniProtKB/Swiss-Prot Function]</p>