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Product datasheet for RC202011

DREF (ZBED1) (NM_004729) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	DREF
Synonyms:	ALTE; DREF; hDREF; TRAMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202011 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAATAAAAGCCTGGAGAGCTCCCAGACAGACCTGAAGCTGGTGGCCCACCCCCGCGCCAAGAGCA
AGGTGTGGAAGTATTTCGGCTTCGACACCAACGCCGAGGGATGCATCCTGCAGTGGAAGAAAATCTACTG
CCGCATCTGCATGGCCCAGATCGCCTACTCCGGAAACACCTCCAACCTGTCCTACCACCTGGAGAAGAAC
CACCCCGAGGAATTCTGCGAGTTCGTCAAGAGCAACACGGAGCAGATGCGTGAAGCCTTCGCCACCGCCT
TCTCCAAGCTGAAGCCCGAGTCGTCCCAGCAGCCCGGGCAGGATGCGCTGGCCGTCAAGGCCGGCCACGG
CTACGACAGCAAGAAGCAGCAGGAGCTGACGGCCGCCGTGCTGGGCCTCATCTGCGAGGGGCTGTACCCA
GCCTCCATCGTGGACGAGCCCACCTTCAAGGTGCTGCTGAAGACGGCCGACCCCCGGTATGAGCTGCCCA
GCCGGAAGTACATCTCTACCAAGGCCATCCCTGAGAAGTACGGGGCCGTCCGGGAGGTGATCCTGAAGGA
GCTGGCCGAGGCCACCTGGTGTGGCATCTCCACCGACATGTGGAGGAGTGAGAATCAGAACCGCGCCTAC
GTCACGCTGGCCGCCCACTTCCTGGGCCTGGGCGCCCCCAACTGCCTGTCCATGGGCTCCCGCTGCCTGA
AGACCTTCGAGGTGCCCGAAGAGAACACGGCGGAGACCATCACGCGAGTGCTCTATGAGGTCTTCATCGA
GTGGGGCATCAGCGCCAAGGTCTTCGGGGCCACCACCAACTATGGCAAGGACATCGTGAAGGCGTGCTCC
CTGCTGGACGTCGCAGTGCACATGCCCTGCCTGGGCCACACCCTCAATGCCGGCATCCAGCAGGCCTTCC
AGCTCCCGAAGCTGGGGGCGCTGCTGTCGCGCTGCCGCAAACTGGTGGAGTACTTCCAGCAGTCTGCCGT
GGCCATGTACATGCTCTATGAGAAGCAGAAGCAGCAGAACGTGGCCCACTGCATGCTGGTGAGCAACCGC
GTCTCCTGGTGGGGGAGCACGCTGGCCATGCTGCAGCGCCTCAAGGAGCAGCAGTTCGTCATCGCCGGGG
TCTTGGTGGAGGACAGCAACAACCACCACCTCATGCTGGAGGCCAGCGAGTGGGCCACCATCGAGGGGCT
GGTGGAGCTCCTGCAGCCCTTCAAGCAGGTGGCCGAGATGCTGTCGGCCTCCAGGTACCCCACCATCAGC
ATGGTGAAGCCGCTGCTGCACATGCTCCTGAACACCACGCTCAACATCAAGGAGACCGACTCCAAGGAGC
TCAGCATGGCCAAGGAGGTCATCGCCAAGGAGCTTTCCAAGACCTACCAGGAGACGCCCGAGATCGACAT
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CAGCAGGTGGAGAATCGCGTGGTGGAAGAGGCCAAGGGCCTGCTGGACAAGGTCAAAGACGGCGGCTACC
GGCCGGCTGAGGACAAGATCTTCCCGGTGCCCGAGGAGCCTCCCGTCAAGAAGCTCATGCGGACATCCAC
GCCGCCGCCCGCCAGCGTCATCAACAACATGCTGGCCGAGATCTTCTGCCAGACAGGCGGCGTGGAGGAC
CAGGAAGAGTGGCATGCCCAGGTGGTGGAGGAGCTGAGCAACTTCAAGTCCCAGAAGGTGCTTGGCCTCA
ACGAAGACCCCCTCAAGTGGTGGTCAGACCGCCTGGCCCTCTTCCCCCTGCTGCCCAAGGTGCTGCAGAA
GTACTGGTGCGTGACGGCCACGCGCGTCGCCCCTGAGCGTCTCTTCGGATCCGCCGCCAACGTGGTCAGC
GCCAAGAGGAACCGGCTGGCTCCCGCGCACGTGGACGAGCAGGTGTTTCTGTATGAGAACGCCCGGAGTG
GGGCAGAGGCGGAACCCGAGGACCAGGACGAGGGGGAGTGGGGCCTGGACCAGGAGCAGGTGTTCTCCTT
GGGGGATGGCGTCAGCGGCGGTTTCTTTGGCATTAGGGACAGCAGCTTCCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202011 protein sequence
Red=Cloning site Green=Tags(s)

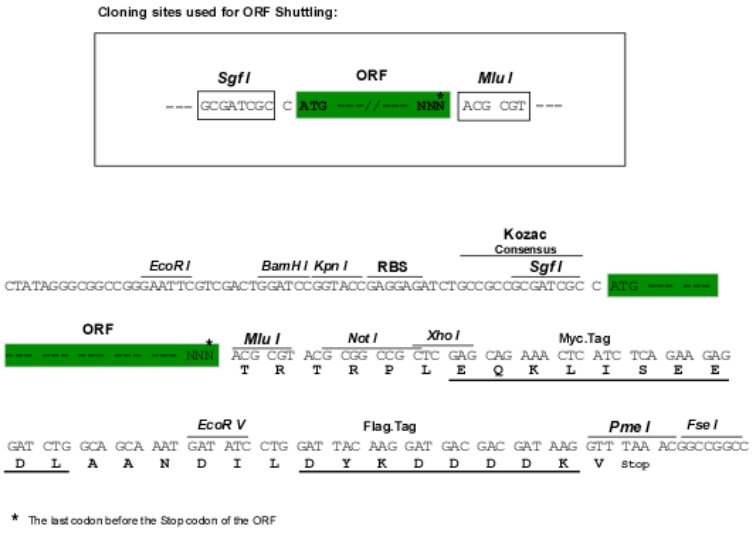
MENKSLESSQTDLKLVAHPRAKSKVWKYFGFDTNAEGCILQWKKIYCRICMAQIAYSGNTSNLSYHLEKN
HPEEFCEFVKSNTEQMREAFATAFSKLKPESSQQPGQDALAVKAGHGYDSKKQQELTAAVLGLICEGLYP
ASIVDEPTFKVLLKTADPRYELPSRKYISTKAIPEKYGAVREVILKELAEATWCGISTDMWRSENQNRAY
VTLAAHFLGLGAPNCLSMGSRCLKTFEVPEENTAETITRVLYEVFIEWGISAKVFGATTNYGKDIVKACS
LLDVAVHMPCLGHTLNAGIQQAFQLPKLGALLSRCRKLVEYFQQSAVAMYMLYEKQKQQNVAHCMLVSNR
VSWWGSTLAMLQRLKEQQFVIAGVLVEDSNNHHLMLEASEWATIEGLVELLQPFKQVAEMLSASRYPTIS
MVKPLLHMLLNTTLNIKETDSKELSMAKEVIAKELSKTYQETPEIDMFLNVATFLDPRYKRLPFLSAFER
QQVENRVVEEAKGLLDKVKDGGYRPAEDKIFPVPEEPPVKKLMRTSTPPPASVINNMLAEIFCQTGGVED
QEEWHAQVVEELSNFKSQKVLGLNEDPLKWWSDRLALFPLLPKVLQKYWCVTATRVAPERLFGSAANVVS
AKRNRLAPAHVDEQVFLYENARSGAEAEPEDQDEGEWGLDQEQVFSLGDGVSGGFFGIRDSSFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6307_d12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004729

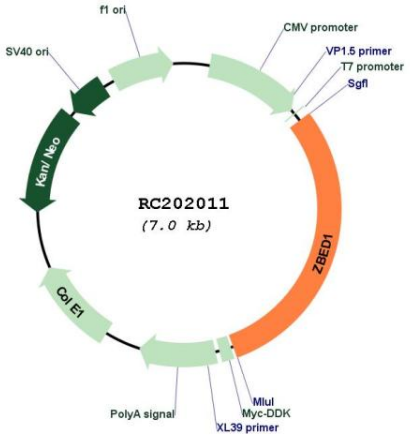
ORF Size: 2082 bp

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

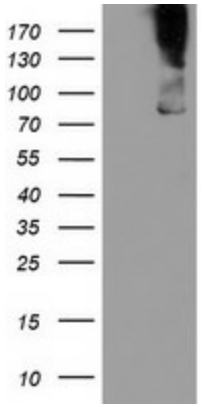
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_004729.4
RefSeq Size:	4525 bp
RefSeq ORF:	2085 bp
Locus ID:	9189
UniProt ID:	O96006
Cytogenetics:	X;Y
Domains:	zf-BED
Protein Families:	Druggable Genome
MW:	78.1 kDa
Gene Summary:	This gene is located in the pseudoautosomal region 1 (PAR1) of X and Y chromosomes. It was earlier identified as a gene with similarity to Ac transposable elements, however, was found not to have transposase activity. Later studies show that this gene product is localized in the nucleus and functions as a transcription factor. It binds to DNA elements found in the promoter regions of several genes related to cell proliferation, such as histone H1, hence may have a role in regulating genes related to cell proliferation. Alternatively spliced transcript variants with different 5' untranslated region have been found for this gene. [provided by RefSeq, Jan 2010]

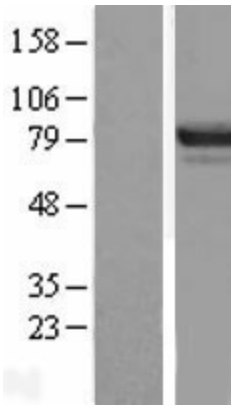
Product images:



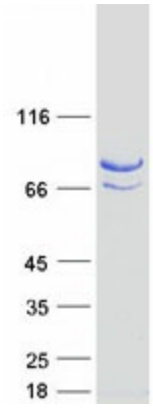
Circular map for RC202011



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ZBED1 (Cat# RC202011, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ZBED1(Cat# [TA505044]). Positive lysates [LY417799] (100ug) and [LC417799] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417799]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202011 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ZBED1 protein (Cat# [TP302011]). The protein was produced from HEK293T cells transfected with ZBED1 cDNA clone (Cat# RC202011) using MegaTran 2.0 (Cat# [TT210002]).