

Product datasheet for **RG230438**

DREF (ZBED1) (NM_001171136) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DREF (ZBED1) (NM_001171136) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZBED1
Synonyms:	ALTE; DREF; hDREF; TRAMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230438 representing NM_001171136
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAATAAAAGCCTGGAGAGCTCCAGACAGACCTGAAGCTGGTGGCCACCCCGCGCCAAGAGCA
 AGGTGTGGAAGTATTTTCGGCTTCGACACCAACGCCGAGGGATGCATCCTGCAGTGAAGAAAATCTACTG
 CCGCATCTGCATGGCCAGATCGCTACTCCGAAACACCTCCAACCTGTCTACCACCTGGAGAAGAAC
 CACCCCGAGGAATTCTGCGAGTTCGTAAGAGCAACACGGAGCAGATGCGTGAAGCCTTCGCCACCGCCT
 TCTCCAAGCTGAAGCCGAGTCGTCCCAGCAGCCCGGGCAGGACGCGCTGGCCGTCAAGGCCGGCCACGG
 CTACGACAGCAAGAAGCAGCAGGAGCTGACGGCCCGCTGCTGGGCCTCATCTGCGAGGGGCTGTACCCA
 GCCTCCATCGTGGACGAGCCACCTTCAAGGTGCTGCTGAAGACGGCCGACCCCGGTATGAGTGCCCA
 GCCGAAGTACATCTCTACCAAGGCCATCCCTGAGAAGTACGGGGCGTCCGGGAGGTGATCCTGAAGGA
 GCTGGCCGAGGCCACCTGGTGTGGCATCTCCACCGACATGTGGAGGAGTGAAGAATCAGAACCAGCCCTAC
 GTACGCTGGCCGCCACTTCTGGGCCTGGGCGCCCAACTGCCTGTCCATGGGCTCCCGCTGCCTGA
 AGACCTTCGAGGTGCCGAAGAGAACACGGCGGAGACCATCACGCGAGTGTCTATGAGGTCTTCATCGA
 GTGGGGCATCAGCGCCAAGGTCTTCGGGGCCACCACCAACTATGGCAAGGACATCGTGAAGGCGTGTCC
 CTGCTGGACGTCGAGTGACATGCCCTGCCTGGGCCACACCTTCAATGCCGGCATCCAGCAGGCCTTCC
 AGCTCCCGAAGCTGGGGGCGTGTCTGCGCGTCCCGCAAACCTGGTGGAGTACTTCCAGCAGTCTGCCGT
 GGCCATGTACATGCTCTATGAGAAGCAGAAGCAGCAGAAGTGGCCACTGCATGCTGGTGAACAACCGC
 GTCTCTGGTGGGGGAGCAGCTGGCCATGCTGCAGCGCTCAAGGAGCAGCAGTTCGTCATCGCCGGGG
 TCTTGGTGGAGGACAGCAACAACCACCACCTCATGCTGGAGGCCAGCGAGTGGCCACCATCGAGGGGCT
 GGTGGAGCTCCTGCAGCCCTTCAAGCAGGTGGCCGAGATGCTGTGGCCCTCCAGGTACCCCAACATCAGC
 ATGGTGAAGCCGCTGCTGCACATGCTCCTGAACACCACGCTCAACATCAAGGAGACCGACTCCAAGGAGC
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 GTTTCTCAACGTGGCCACCTTCTGGACCCCGCTACAAGAGGCTGCCCTTCTCTCCGCTTCGAGCGG
 CAGCAGGTGGAGAATCGCGTGGTGAAGAGGCCAAGGGCCTGCTGGACAAGGTCAAAGACGGCGGTACC
 GGCCGGCTGAGGACAAGATCTTCCCGGTGCCCGAGGAGCCTCCCGTCAAGAAGCTCATGCGGACATCCAC
 GCCGCCGCCAGCGTCATCAACAACATGCTGGCCGAGATCTTCTGCCAGACAGGCGCGTGGAGGAC
 CAGGAAGAGTGGCATGCCAGGTGGTGGAGGAGCTGAGCAACTCAAGTCCAGAAGGTGCTTGGCCTCA
 ACGAAGACCCCTCAAGTGGTGGTCAAGCCGCTGGCCCTTCTCCCTGCTGCCAAGGTGCTGCAGAA
 GTACTGGTGCCTGACGGCCACGCGCTGCCCCCTGAGCGTCTTCTCGGATCCGCCGCAACGTGGTCAAGC
 GCCAAGAGGAACCGGCTGGCTCCCGCGCAGTGGACGAGCAGGTGTTTCTGTATGAGAACGCCCGGAGTG
 GGCAGAGGCGGAACCCGAGGACCAGGACGAGGGGAGTGGGGCTGGACCAGGAGCAGGTGTTCTCCTT
 GGGGATGGCGTCAGCGGCGTTCCTTTGGCATTAGGGACAGCAGCTTCTCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG230438 representing NM_001171136
 Red=Cloning site Green=Tags(s)

MENKSLESSQTDLKLVAHPRAKSKVWKYFGFDNAEGCILQWKKIYCRICMAQIAYSNGTNSLSYHLEKN
 HPEEFCEVKSNTQMREAFATAFSLKPESQPGQDALAVKAGHGYDSKKQQLTAAVLGLICEGLYP
 ASIVDEPTFKVLLKTADPRYELPSRKYISTKAIPEKYGAVREVILKELAEATWCGISTDMWRSENQNRAY
 VTLAAHFLGLGAPNCLSMGSRCLKTFEVPEENTAEITITRVLVEYFIEWGISAKVFGATTNYGKDIVKACS
 LLDVAVHMPCLGHTFNAGIQQAFQLPKLGALLSRCRKLVEYFQSAVAMYMLYEKQKQONVAHCMLVSNR
 VSWWGSTLAMLQRLKEQQFVIAGVLVEDSNHHLMLEASAWATIEGLVELLQPFKQVAEMLSASRYPTIS
 MVKPLLHMLLNTLNIKETDSKELSMAKEVIAKELSKTYQETPEIDMFLNVATFLDPYKRLPFLSAFER
 QQVENRVVEEAKGLLDKVKDGGYRPAEDKIFPVPEEPPVKLMRTSTPPPASVINMLAEIFCQTGGVED
 QEEWHAQVVEELSNFKSQKVLGLNEDPLKWWSDRLALFPLLPKVLQKYWCVTATRVAPERLFGSAANVVS
 AKRNRLAPAHVDEQVFLYENARSGAEAPEDQDEGEWGLDQEQVFSLDGVS GGGFFGIRDS SFL

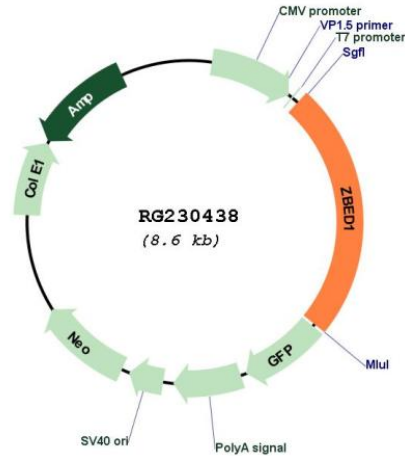
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001171136

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.

RefSeq: [NM_001171136.2](#)

RefSeq Size: 4528 bp

RefSeq ORF: 2085 bp

Locus ID: 9189

UniProt ID: [O96006](#)

Cytogenetics: X;Y

Protein Families: Druggable Genome

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]