

Product datasheet for **RC224846**

ZNF238 (ZBTB18) (NM_205768) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF238 (ZBTB18) (NM_205768) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF238
Synonyms:	C2H2-171; MRD22; RP58; TAZ-1; ZNF238
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC224846 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTGTCCTAAAGGTTATGAAGACAGTATGGAGTTCCAGACCATAGTAGACATTTGCTACAGTGTCTGA
 GCGAGCAGAGACACCGGGTTTTCTTTGTGACTGCACTGTTCTGGTGGGAGATGCCAGTTCCGAGCGCA
 CCGAGCTGTAAGGCTTCATGCAGCATGTATTTCCACATCTTTTACAAGGACCAGCTGGACAAAAGAGAC
 ATTGTTTACATGAACAGCGACATTGTTACAGCCCCGCTTTGCTCTCCTGCTGAATTCATGTATGAAG
 GGAAACTCCAGTCAAAGACTTGCCCATGAAGACGTGCTAGCAGCTGCCAGTTATCTCCACATGTATGA
 CATTGTCAAAGTCTGAAAAAGAAAGCTGAAAGAGAAAGCCACCACGAGGCAGACAGCACCACAAAAGGAA
 GAAGATGCTTCAAGTTGTTGCGACAAAGTCGAGAGTCTCTCCGATGGCAGCAGCCACATAGCAGGCGATT
 TGCCCACTGATGAAGATGAAGGAGAAGATGAAAAATTGAACATCTGCCAGCAAAAGGGACTTGCCGCGC
 CGAGCCTGGGAACATGTGGATGCGATTGCCCTCAGACTCAGCAGGCATCCCCAGGCTGGCGGAGAGGCA
 GAGCCACACGCCACAGCAGCTGGAAAAACAGTAGCCAGCCCTGCAGCTCAACAGAGTCTTTGTCCAGA
 GGTCTGTACCTCCGTGAGGGATTGCGCAGATGTTGACTGTGTGCTGGACCTGTCTGTCAAGTCCAGCCT
 TTCAGGAGTTGAAAACTGAACAGCTCTTATTTCTCTTACAGGACGTGCTGAGAAGCAACCTGGTGCAG
 GTGAAGGTGGAGAAAGAGGCTTCTGTGATGAGAGTGTGTTGGCACTAATGACTATGACATGGAACATA
 GCACTGTGAAAGAAAGTGTGAGCACTAATAACAGGGTACAGTATGAGCCGGCCCATCTGGCTCCCCTGAG
 GGAGGACTCGGTCTTGAGGGAGCTGGACCGGGAGGACAAAGCCAGTGTATGAGATGATGACCCAGAG
 AGCGAGCGTGTCCAGGTGGAGGGAGGCATGGAGAGCAGTCTGCTCCCCTACGTCTCCAACATCCTGAGCC
 CCGCGGGCCAGATCTTCATGTGCCCCCTGTGCAACAAGTCTTCCCAGCCCCACATCCTGCAGATCCA
 CCTGAGCAGCAGCACTTCCGCGAGCAGGACGCGCATCCGAGCAAGCCCGCCGCGGATGTCAACGTGCCACG
 TGCTCGCTGTGTGGGAAGACTTTCTCTTGCATGTACACCCTCAAGCGCCACGAGAGGACTCACTCGGGG
 AGAAGCCCTACACATGCACCCAGTGCAGCAAGAGCTTCCAGTACTCGCACAACCTGAGCCGCCATGCCGT
 GGTGCACACCCGCGAGAAGCCGACGCTGCAAGTGGTGCAGCGCAGGTTACGCAGTCCGGGGACCTG
 TACAGACACATTCGAAGTTCCACTGTGAGTTGGTGAACCTCTTGTGGTCAAAGCGAAGCACTGAGCT
 TGCTACTGTGAGAGCTGGACCTAGAAGATAGCTCTCAAGAACTTTGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224846 protein sequence
 Red=Cloning site Green=Tags(s)

MCPKGYEDSMEFPDHSRHLQLCLSEQRHQGFLCDCTVLVGDAQFRAHRAVLASCSMYFHIFYKDQLDKRD
 IVHLNSDIVTAPAFALLLEFMYEGLQFKDLPIEDVLAASYLHMYDIVKVCKKKLKEKATTEADSTKKE
 EDASSCDKVESLSDGSSHIAGDLPSEDEGEDEKLNILPSKRDLAAEPGNMWMRLPSDSAGIPQAGGEA
 EPHATAAGKTVASPCSSTESLSQRSVTSVRDSADVDCVLDL SVKSSL SGVENLNSSYFSSQDVLRSNLVQ
 VKVEKEASCDSDVGTNDYDMEHSTVKESVSTNNRVQYEPAPHLAPLREDSVLRELDREDKASDDEMTPE
 SERVQVEGGMESLLPYVSNILSPAGQIFMCPLCNKVFPSPHILQIHLSTHFREQDGIRSKPAADVNVPT
 CSLCGKTFSCMYTLKRHERTHSGEKPYTCTQCGKSFQYSHNLSRHAVVHTREKPHACKWCERRFTQSGDL
 YRHIRKFHCELVNSLSVKSEALSLPTVRDWTLEDSSQELWK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6534_f12.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_205768

ORF Size: 1593 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_205768.3](#)

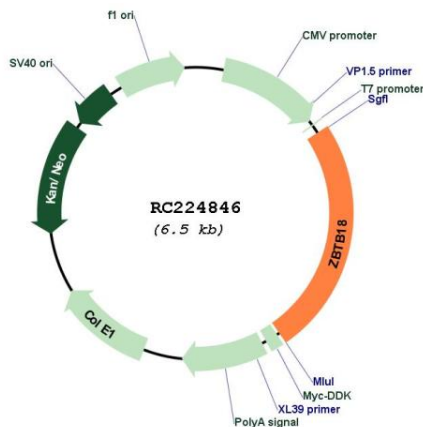
RefSeq Size: 3922 bp

RefSeq ORF: 1596 bp

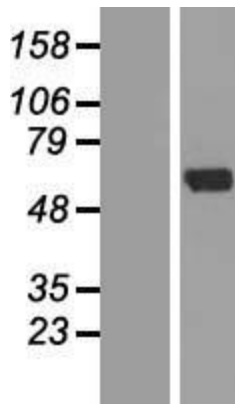
Locus ID: 10472

UniProt ID:	<u>Q99592</u>
Cytogenetics:	1q44
Protein Families:	Transcription Factors
MW:	59.4 kDa
Gene Summary:	This gene encodes a C2H2-type zinc finger protein which acts a transcriptional repressor of genes involved in neuronal development. The encoded protein recognizes a specific sequence motif and recruits components of chromatin to target genes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2013]

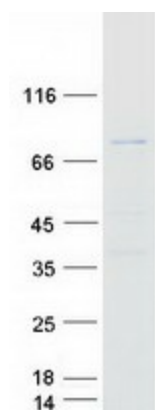
Product images:



Circular map for RC224846



Western blot validation of overexpression lysate (Cat# [LY404258]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224846 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ZBTB18 protein (Cat# [TP324846]). The protein was produced from HEK293T cells transfected with ZBTB18 cDNA clone (Cat# RC224846) using MegaTran 2.0 (Cat# [TT210002]).