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Product datasheet for RC223457

ZNF500 (NM_021646) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF500 (NM_021646) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNF500
Synonyms:	ZKSCAN18; ZSCAN50
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC223457 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACTGTCCCTGGCCTCCAGCCCCTGCCAACCTTGGAGCAGGACCTGGAACAGGAAGAGATCCTGA
TTGTGAAGGTGGAGGAGGACTTCTGCTTGGAAGAGGAGCCCTCCGTGGAGACGGAGGACCCCAGCCCTGA
GACTTTCCGCCAGCTCTTCCGGCTCTTCTGCTACCAGGAGGTGGCTGGGCCCCGGGAGGCCCTGAGCCGC
CTCTGGGAGCTGTGCTGCCGCTGGCTGCGGCCGGAGCTGCGCACCAAGGAGCAGATCCTGGAGCTGCTGG
TGCTGGAGCAGTTCCTGACTGTGCTGCCGGGGGAGATCCAGGCTCGGGTACGCGAGCAGCAGCCGGAGAG
CGGTGAGGAGGCCGTGGTCCTCGTGGAGGGGCTGCAGCGGAAGCCCAGGAAACACAGGCAGCGGGGCTCA
GAGCTGCTTTCTGATGACGAGGTGCCCCTCGGGATAGGGGGACAGTTCTTAAAACACCAGGCAGAGGCTC
AGCCAGAGGATCTGTCCCTGGAGGAAGAGGCTCGATTCTCCAGCCAGCAGCCCCCAGCCCAGCTGAGCCA
CAGGCCACAGAGGGGCCCGCTGTTGTGGCCAGAGAGAGGCCCTCCAGCTCCCCGGCATCAGGAGATGGCG
TCAGCCTCGCCCTTCCTTTCGGCCTGGTCCCAGGTGCCCGTGAACTTGGAGGACGTGGCTGTATACCTTT
CTGGGGAGGAGCCAAGATGCATGGACCCAGCTCAGCGGGACGCGCCGCTGGAGAATGAAGGACCTGGGAT
CCAGTTGGAGGACGGCGGTGATGGCAGGGAGGATGCCCCGTTGAGAATGGAGTGGTACCGAGTGCTCTCG
GCACGATGCCAGGGGCCTGGCCACCCGCTCCCAGGTCAGAGGCCAGCCCCAGTCAGGGGCTTGGTCAGGC
CTGATCAGCCAAGAGGCGGCCCCCCACCAGGAAGACGGGCTTCCCATGGGGCTGACAAGCCGTACACCTG
CCCCGAATGTGGCAAAGGCTTCAGCAAGACGTCCCACTTGACCAAGCACCAGCGCACACACACGGGCGAG
CGGCCTTACAAGTGCCTAGTCTGTGGGAAGGGCTTTAGCGACCGCTCCAACTTCAGCACGCACCAGAGGG
TGCACACAGGCGAGAAGCCCTACCCGTGCCCCGAGTGTGGGAAGCGCTTCAGCCAGAGCTCCAGCCTGGT
CATCCACCGCAGGACACACAGCGGGGAGCGGCCCTATGCCTGCACCCAGTGCGGGAAGCGCTTCAACAAC
AGCTCGCACTTCAGCGCCCACCGCCGGACGCACACAGGTGAGAAGCCCTACACCTGCCCGGCCTGTGGCC
GGGGCTTCCGCCGGGGCACCGACCTGCACAAGCACCAGCGGACCCACATGGGGGCAGGCTCCTTGCCGAC
GCTCCAGCCGGTGGCTCCTGGAGGCCCCGGTGCAAAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223457 protein sequence
Red=Cloning site Green=Tags(s)

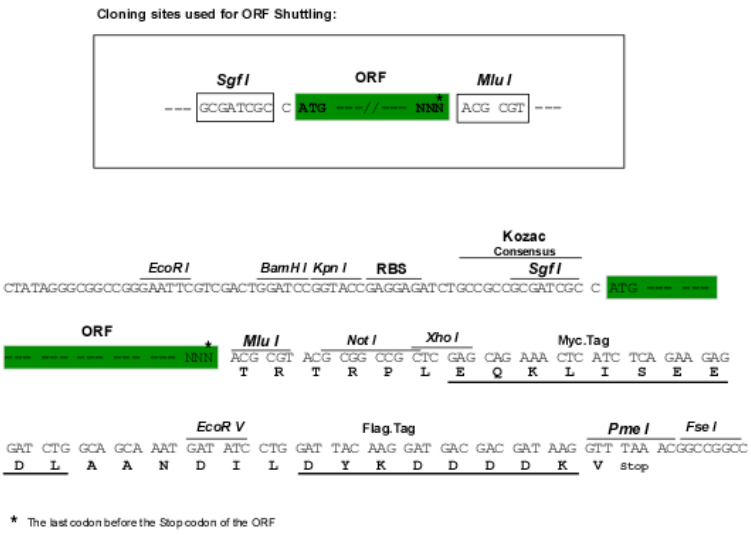
MATVPGLQPLPTLEQDLEQEEILIVKVEEDFCLEEEPSVETEDPSPETFRQLFRLFCYQEVAGPREALSR
LWELCCRWLRPELRTKEQILELLVLEQFLTVLPGEIQARVREQQPESGEEAVVLVEGLQRKPRKHRQRGS
ELLSDDEVPLGIGGQFLKHQAEAQPEDLSLEEEARFSSQQPPAQLSHRPQRGPLLWPERGPPAPRHQEMA
SASPFLSAWSQVPVNLEDVAVYLSGEEPRCMDPAQRDAPLENEGPGIQLEDGGDGREDAPLRMEWYRVLS
ARCQGPGHPLPGQRPAPVRGLVRPDQPRGGPPPGRRASHGADKPYTCPECGKGFSKTSHLTKHQRTHTGE
RPYKCLVCGKGFSDRSNFSTHQRVHTGEKPYPCPECGKRFSQSSSLVIHRRTHSGERPYACTQCGKRFNN
SSHFSAHRRTHTGEKPYTCPACGRGFRRGTDLHKHQRTHMGAGSLPTLQPVAPGGPGAKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6443_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021646

ORF Size: 1440 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_021646.4

RefSeq Size: 3252 bp

RefSeq ORF: 1443 bp

Locus ID: 26048

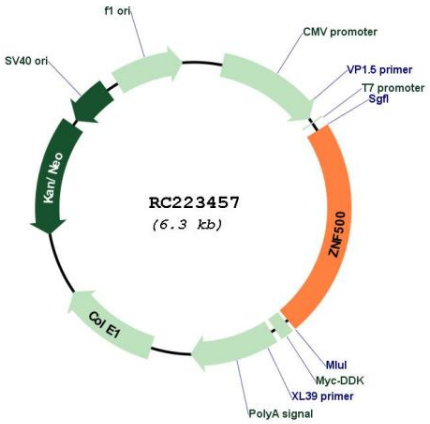
UniProt ID: O60304

Cytogenetics: 16p13.3

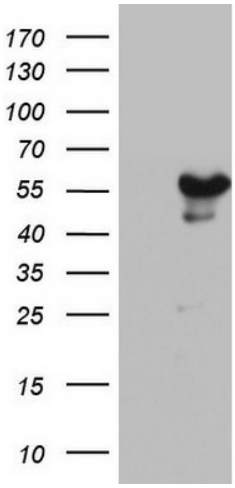
MW: 53.7 kDa

Gene Summary: May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

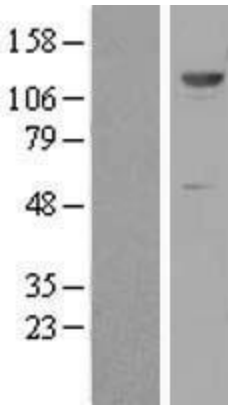
Product images:



Circular map for RC223457



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ZNF500 (Cat# RC223457, 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-ZNF500(Cat# [TA803462]). Positive lysates [LY411935] (100ug) and [LC411935] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY411935]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223457 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).