

Product datasheet for **RC208584**

ZNHIT2 (NM_014205) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNHIT2 (NM_014205) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZNHIT2
Synonyms:	C11orf5; FON
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208584 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCGGCCGGGCCCTGTGGCTTCTGCCGGCGGGGAGGTCCAGCCAGCGCGTTACACCTGCCCTC
GCTGTAATGCGCCCTACTGCTCGCTGCGTCTACCGGACGCATGGCACCTGCGCAGAAACTTCTACCG
TGACCAAGTGTGGGAGAGCTCCGCGTTGCAGCGCTCCTCCAGCCGCTAGCAAGCGCCCTACGCCG
CTGCGTCAGCAACGCGAGACCGAGGACGAGCCTGGGAAGCAGGCCTCAGCTCCGCCCGCGCCCGCG
GCCTATCGGGACTCTGGGAGCGCTGGCGCCGGCGGAAAAAGCTGCCTTCGAGCGGCTGCTGAGCCGCG
TGAGGCCGGCGGCTGCTGCCTCCATGGCGGCCGTGGTGGTGGAACCGCGAGCCGACCGAGCTTCTG
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GTGCGCTTCCAGTGCCCAATGTGCTGTTGCGCTACGCGCATACTCTCGCCCTGTATCACGGCGGTGACG
ACGCGCTGCTCTGACTTCTGTGCCACACTGCTCGCGTTTCCGGAGCCCTGGGTGCCAGCAAGTCTT
CGCCTCTGCGGAAGAAGCCCTGCAGGCGGCAGCCACGTGCTGGAAGCAGGCGAGCACCCGCCGGGGCC
CTGGGCACACGAGGGGCTATGCACGAGGTGCGCCGCATCCTGCTGGGCGAGGGCCCGACCAACAGAAAG
GCTACACGCTGGCAGCACTGGGGGACCTGGCACAGACCTGGGCCGTGCCGGAACAGGCCGTGGCTAG
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GAGGCGGCCCTCACACCCTGGCTCTAGACTGCGCCAGGGCTACCAAGCCCATGCTGTGGTAGCCGAGG
AGGTGGCCGCCCTCACTGGGAGCTGGAGCGGCTTTGGGAGGCCCGTGCCACCTGCCCAAGAACTCT
CATTGAGGAGCTCCCTAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208584 protein sequence
 Red=Cloning site Green=Tags(s)

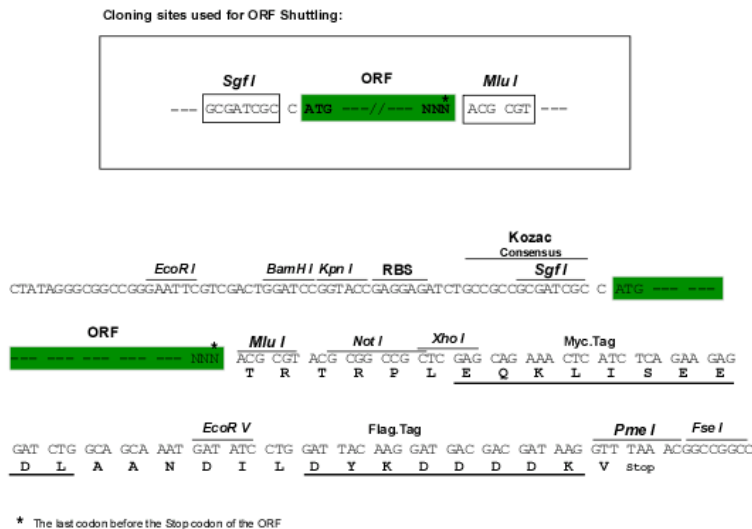
MEPAGPCGFCPAGEVQPARYTCPRCNAPYCSLRCYRTHGTCAENFYRDQVLGELRGCSAPPSRLASALRR
 LRQORETEDEPGEAGLSSGPAPGGLSGLWERLAPGEKAAFERLLSRGEAGRLPPWRPWWNRGAGPQLL
 EELDNAPGSDAAEELAPARTPPDSVKDASAAEPAAAERVLGDVPGACTPVVPTRIPAIVSLSRGPVSPL
 VRFQLPNVLFAYAHTLALYHGGDDALLSDFCATLLGVSGALGAQQVFASAEALQAAHVLEAGEHPPGP
 LGTRGAMHEVARILLGEGPTNQKGYTLAALGDLAQTLGRARKQAVAREERDHLRYARKKCQFLLAWTNEN
 EAALTPLALDCARAHQAHAVVAEEVAALTGELERLWGGPVPPAPRTLIEELPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6781_b12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014205

ORF Size: 1209 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_014205.2](#), [NP_055020.1](#)

RefSeq Size: 1321 bp

RefSeq ORF: 1212 bp

Locus ID: 741

UniProt ID: [Q9UHR6](#)

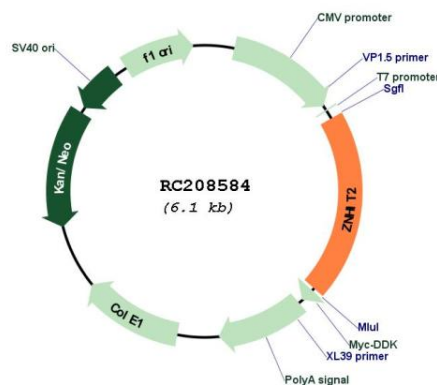
Cytogenetics: 11q13.1

Domains: zf-HIT

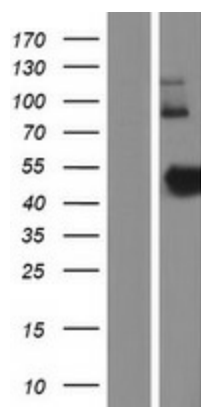
MW: 42.9 kDa

Gene Summary: May act as a bridging factor mediating the interaction between the R2TP/Prefoldin-like (R2TP/PFDL) complex and U5 small nuclear ribonucleoprotein (U5 snRNP) (PubMed:28561026). Required for the interaction of R2TP complex subunit RPAP3 and prefoldin-like subunit URI1 with U5 snRNP proteins EFTUD2 and PRPF8 (PubMed:28561026). May play a role in regulating the composition of the U5 snRNP complex (PubMed:28561026). [UniProtKB/Swiss-Prot Function]

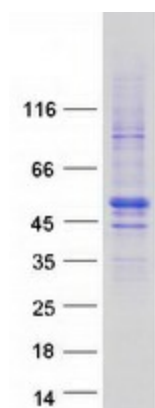
Product images:



Circular map for RC208584



Western blot validation of overexpression lysate (Cat# [LY415441]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208584 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ZNHIT2 protein (Cat# [TP308584]). The protein was produced from HEK293T cells transfected with ZNHIT2 cDNA clone (Cat# RC208584) using MegaTran 2.0 (Cat# [TT210002]).