

Product datasheet for RC201273

YL1 (VPS72) (NM_005997) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	YL1 (VPS72) (NM_005997) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	YL1
Synonyms:	CFL1; Swc2; TCFL1; YL-1; YL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201273 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTTTGGCTGGGGGCCGGGCACCCCGAAGACCGCTGGGAACCGCTTTCTGGGCTTTTGGAGGCAG
AGGAGGAAGATGAGTTCTACCAGACGACTTATGGGGTTTCACAGAGGAATCCGGAGATGATGAGTATCA
AGGGGACCACTCAGACACAGAGGACGAAGTGGACTCTGACTTTGACATTGATGAAGGGGATGAACCATCC
AGTGATGGAGAAGCAGAAGAGCCAAGAAGGAAGCGCCGAGTAGTCACCAAGGCCTATAAGGAACCTCTCA
AGAGCTTAAGGCCTCGAAAGGTCAACACCCCGGCTGGTAGCTCTCAGAAGGCGCGAGAAGAGAAGGCACT
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AGCGGCCACTAATCCAGGAGGAACTGCTCCGGGAGGCCAAGATCACAAGAGCTTAATTTACGGTCACT
GGAGACATATGAGCGGCTCGAGGCTGATAAAAAGAAGCAGGTTTCAAGAAGCGGAAGTGCCCGGGGCC
ATAATCACCTATCATTGAGTACAGTGCCTTGTGGGGAGCCAGGCCCAAGGAAGAGAACGTTGACA
TAGAAGGACTTGATCCTGCTCCCTCGGTGTCTGCATTGACTCCTCATGCTGGGACTGGACCCGTCAACCC
CCCTGCTCGTGTCTCACGTACCTTCATCACTTTTAGTGATGATGCAACTTTCGAGGAATGGTTCCCCAA
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CTGTTACAGACATACCCTATGCCACTGCTCGAGCCTTCAAGATCATTCTGTGAGGCTTACAAGAAGTACAT
TACTGCCCATGGACTGCCGCCACTGCCTCAGCCCTGGGCCCCGGCCGACCTCCTGAGCCCCTCCCT
GGCTCTGGGCCCCGAGCCTTGCGCCAGAAAATTGTCATTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC201273 protein sequence
 Red=Cloning site Green=Tags(s)

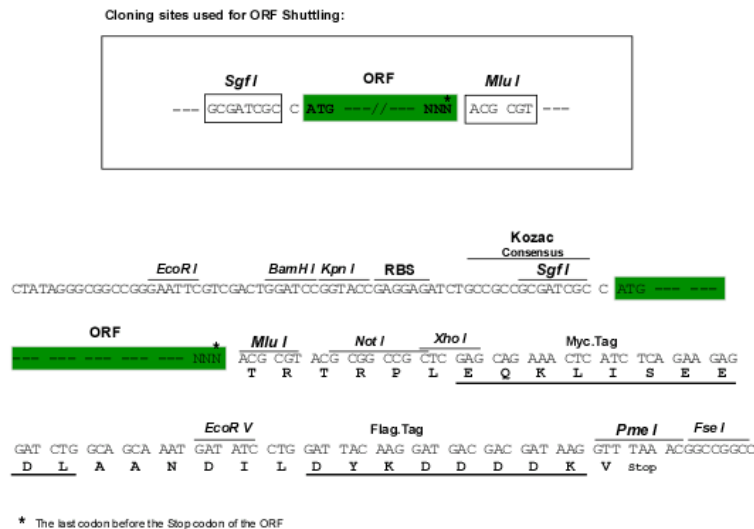
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 SDGEAEEPRRRRVVTKAYKEPLKSLRPRKVNTAPAGSSQKAREEKALLPLELQDDGSDSRKSMRQSTA
 TRQTFRLVQERQGSRRRKGPHERPLTQEELLREAKITEELNLSLETYERLEADKKKQVHKRKCPCGP
 IITYHSVTPLVGEPGKKEENVLDIEGLDPAPSVSALTPHAGTGPVNPPARCSRTFITFSDDATFEWFPQ
 GRPPKVPVREVCPVTHRPALYRDPVTDIPYATARAFAKIIIEAYKKYITAHGLPPTASALGPGPPPEPLP
 GSGPRALRQKIVIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6588_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005997

ORF Size: 1092 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_005997.3](#)

RefSeq Size: 1546 bp

RefSeq ORF: 1095 bp

Locus ID: 6944

UniProt ID: [Q15906](#)

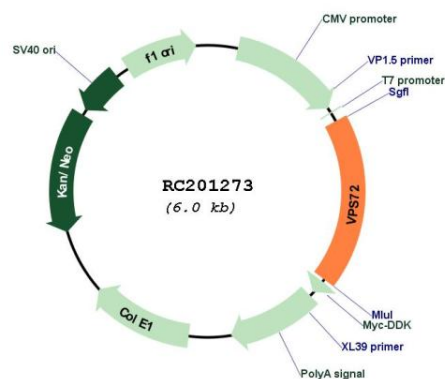
Cytogenetics: 1q21.3

Protein Families: Transcription Factors

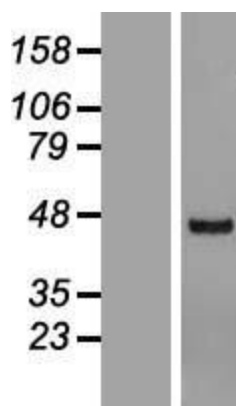
MW: 40.6 kDa

Gene Summary: The protein encoded by this gene is a shared subunit of two multi-component complexes, the histone acetyltransferase complex TRRAP/TIP60 as well as the chromatin remodeling SRCAP-containing complex. The TRRAP/TIP60 complex acetylates nucleosomal histones important for transcriptional regulation, double strand DNA break repair and apoptosis. The SRCAP-containing complex catalyzes the exchange of histone H2A with the histone variant Htz1 (H2AFZ) into nucleosomes. This protein may be responsible for binding H2AFZ, which has a role in chromosome segregation. This protein may also have a role in regulating long-term hematopoietic stem cell activity. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Aug 2012]

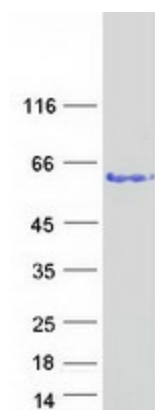
Product images:



Circular map for RC201273



Western blot validation of overexpression lysate (Cat# [LY416942]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201273 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VPS72 protein (Cat# [TP301273]). The protein was produced from HEK293T cells transfected with VPS72 cDNA clone (Cat# RC201273) using MegaTran 2.0 (Cat# [TT210002]).