

Product datasheet for **RG201273**

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:	TurboGFP
Symbol:	YL1
Synonyms:	CFL1; Swc2; TCFL1; YL-1; YL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201273 representing NM_005997 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTTTGGCTGGGGGCCGGGCACCCCGAAGACCGCTGGGAACCGCTTTCTGGGCTTTTGGAGGCAG
 AGGAGGAAGATGAGTTCTACCAGACGACTTATGGGGTTTCACAGAGGAATCCGGAGATGATGAGTATCA
 AGGGGACCAGTCAGACACAGAGGACGAAGTGGACTCTGACTTTGACATTGATGAAGGGGATGAACCATCC
 AGTGATGGAGAAGCAGAAGAGCCAAGAAGGAAGCGCCGAGTAGTCACCAAGGCCTATAAGGAACCTCTCA
 AGAGCTTAAGGCCTCGAAAGGTCAACACCCCGGCTGGTAGCTCTCAGAAGGCGCGAGAAGAGAAGGCACT
 ACTGCCATTAGAACTACAAGATGACGGCTCTGACAGTCGGAAGTCTATGCGTCAGTCTACAGCTGAGCAT
 ACACGACAAACGTTCTTCGGGTACAGGAGAGGCGAGGGCCAGTCAAGACGGCGAAAGGGGCCCCACTGTG
 AGCGGCCACTAATCCAGGAGGAACTGCTCCGGGAGGCCAAGATCACAAGAGCTTAATTTACGGTCACT
 GGAGACATATGAGCGGCTCGAGGCTGATAAAAAGAAGCAGGTTTCAATAAGAAGCGGAAGTGCCCGGGGCC
 ATAATCACCTATCATTGAGTACAGTGCCTTGTGGGGAGCCAGGCCCAAGGAAGAGAACGTTGACA
 TAGAAGGACTTGATCCTGCTCCCTCGGTGTCTGCATTGACTCCTCATGCTGGGACTGGACCCGTCACCC
 CCCTGCTCGTGTCTCACGTACCTTCATCACTTTTAGTGATGATGCAACTTTCGAGGAATGGTTCCCCCAA
 GGGCGGCCCCAAAAGTCCCTGTTCTGTGAGGTCTGTCCAGTGACCCATCGTCCAGCCCTATACGGGACCC
 CTGTTACAGACATACCCTATGCCACTGCTCGAGCCTTCAAGATCATTCTGTGAGGCTTACAAGAAGTACAT
 TACTGCCCATGGACTGCCGCCACTGCCTCAGCCCTGGGCCCGGCCGACCTCCTGAGCCCCTCCCT
 GGCTCTGGGCCCCGAGCCTTGCGCCAGAAAATTGTCATTAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


[View online »](#)

Protein Sequence: >RG201273 representing NM_005997
 Red=Cloning site Green=Tags(s)

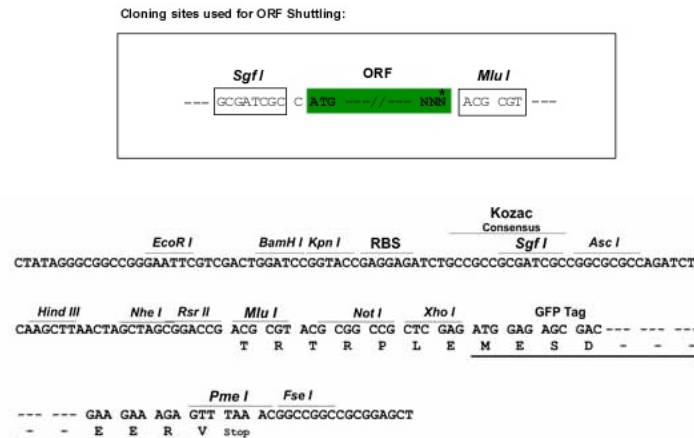
MSLAGGRAPRKTAGNRLSGLLEAEEDEFYQTTYGGFTEESGDDEYQGDQSDTEDEVDSDFDIDEGDEPS
 SDGEAEEPRRRRVVTKAYKEPLKSLRPRKVNTPAGSSQKAREEKALLPLELQDDGSDSRKSMRQSTA
 TRQTFRLVQERQGSRRRKGPCHERPLTQEELLREAKITEELNLSLETYERLEADKKKQVHKRKC
 PGPIITYHSVTVPLVGEPGPKEENVNDIEGLDPAPSVSALTPHAGTGPVNPPARCSRTFITFSDDAT
 FEEWFPQGRPPKVPVREVCPVTHRPALYRDPVTDIPYATARAFAKIIREAYKKYITAHGLPPTASAL
 GPGPPPEPLPGSGPRALRQKIVIK

TRTRPLE – GFP Tag – V

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.

RefSeq: [NM_005997.3](#)

RefSeq Size: 1324 bp

RefSeq ORF: 1095 bp

Locus ID: 6944

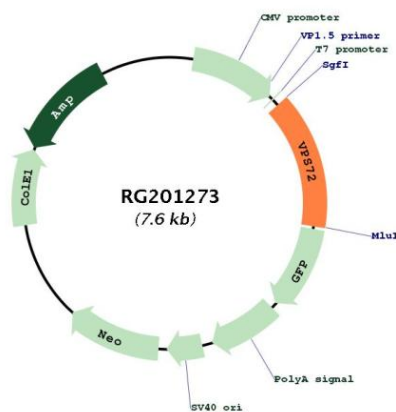
UniProt ID: [Q15906](#)

Cytogenetics: 1q21.3

Protein Families: Transcription Factors

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 RG201273