

## Product datasheet for RC202057L3

### ZBTB48 (NM\_005341) Human Tagged Lenti ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZBTB48 (NM_005341) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	ZBTB48
Synonyms:	HKR3; pp9964; TZAP; ZNF855
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC202057).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF.

ACCN:	NM_005341
ORF Size:	2064 bp



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<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005341.1</a>
<b>RefSeq Size:</b>	2289 bp
<b>RefSeq ORF:</b>	2067 bp
<b>Locus ID:</b>	3104
<b>UniProt ID:</b>	<a href="#">P10074</a>
<b>Cytogenetics:</b>	1p36.31
<b>Domains:</b>	BTB, zf-C2H2
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	76.9 kDa
<b>Gene Summary:</b>	Telomere-binding protein that acts as a regulator of telomere length (PubMed:28500257, PubMed:28082411). Directly binds the telomeric double-stranded 5'-TTAGGG-3' repeat (PubMed:28500257, PubMed:28082411). Preferentially binds to telomeres that have a low concentration of shelterin complex and acts as a regulator of telomere length by initiating telomere trimming, a process that prevents the accumulation of aberrantly long telomeres (PubMed:28082411). Also acts as a transcription regulator that binds to promoter regions (PubMed:7969177, PubMed:24382891, PubMed:28500257). Regulates expression of a small subset of genes, including MTFP1 (PubMed:28500257). Regulates expression the J and/or S elements in MHC II promoter (PubMed:7969177). Acts as a negative regulator of cell proliferation by specifically activating expression of ARF, a tumor suppressor isoform of CDKN2A (PubMed:24382891).[UniProtKB/Swiss-Prot Function]