

## Product datasheet for **SC127764**

### **Kaiso (ZBTB33) (AK092998) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kaiso (ZBTB33) (AK092998) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZBTB33
Synonyms:	ZNF-kaiso; ZNF348
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >NCBI ORF sequence for AK092998, the custom clone sequence may differ by one or more nucleotides

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TTTATGTCTTCACATATAAAGTCAGTTCATAGTCAAGATCCTTCTGGGGACTCAAAGCTTTATCGTTTTAC
ATCCATGCAGGTCTTTACAAATCAGACAATATGCATATCTTTCCGATAGATCAAGCACTATTCTGCAAT
GAAGGATGATGGTATTGGGTATAAGGTTGACACTGGAAAAGAACCTCCAGTAGGGACCCTACATCTACT
CAGAACAAGCCAATGACCTGGGAAGATATTTTTATTTCAGCAGGAAAATGATTCAATTTTTAAACAAAATG
TAACAGATGGCAGTACTGAGTTTGAATTTATAATACCAGAGTCTTACTAACTCCTTTGAAATACTAGAA
AGTTTTGTTTTGGATGATGGGGCAGGGTTTCAGAAGACTGTAAAACAAATTAAGGTGCGAACAAGTTA
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CCTGAAAGTTTTGAGTAGAGGTGAGACCCCTCCCAAGTATCTGTTTATATAGTTAGTTTTAGCTCAT
TTAAAGGAGGCAAAAATAAAAGCTTGGAGAGATAGTTTCTGAATAGAATTTGAAGCAGTCTGAATGTT
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CCTAGGAAAGTCTTTATTTGAAATAGTTGAATCAGTGATCTAGTATTTTCTTTTCGGCAAGATTTGTTA
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GTTTCATGCAATAATAACAAGAAAAAATCCTTTGCTTGCCAAGAGGTAGAGTGATGTGCATTTATCTGTT
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AACTTAAGACTCTGTGATCTCTGGAATCACCATATGTTTCTTTTTGTGTAGATTAATAACATTACTC
TTTGACTATAGTGTGCACTCTGAAATGACTCAGTGAATAATGTTTTGAGTTTCATTAAATGCTATTTCA
CCAGTTAGACATAATTACTTCTACCGATGTGAATGATACGGATGCCGGCAGAGCTCCAGATCTTTCAGA
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GTGCTCTGTAATTTCTGAATATGACATTTAAACTCTGTGCCTACTAAAGGTATCTTCTGGAGTTTTTGGG
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ATGCTAAATTACCTGTAATATTCTGGATAGGAACTACTGAAATAGTAATTTGTTAAAAGATATGACAA
AATGAAAATGCTTAACTACAGAAATTTAAAAATGCCATAACAATCTTGAAGACTAACTTTAAAATATA
CTTTAAATGATTATTATGATTTTGGTGGTAACGATCCCCACACACAACCACTATGAAGAAATAATGCC
CATTTTTCCCCATTGTACC
    
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for AK092998 unedited CGCGAATTCGGCACCCAGCCCTGATGAAGGGGAGGCCACTTGTGAGAATGAAATACCAAAA ACGTCTGGCAGCGAGATGGCAAACAAACGTATGAAAGTAAACATGATGATCACTATGAG TTAATAGTAGATGGAAGGGTCTATTATATCTGTATTGTATGCAAAAGGCATATGTCTGT CTGACAAGCTTGGCGAGACATTTAACATTCATTCTTGGGAGAAGAAGTATCCGTGCCGT TACTGTGAGAAGGTATTTCCCTCTTGCAAGATATCGCACAAGCATGAAATTCATCACACA GGGGAGCGAAGGTATCAGTGTTTGGCCTGTGGCAAATCTTTCATCAACTATCAGTTTATG TCTTCACATATAAAGTCAGTTCATAGTCAAGATCCTTCTGGGGACTCAAAGCTTTATCGT TTACATCCATGCAGGTCTTTACAATCAGACAATATGCATATCTTCCGATAGATCAAGC ACTATTCTGCAATGAAGGATGATGGTATTGAGTATAAGGTTGACACTGGAAAAGAACCT CCAGTAGGGACCACTACATCTACTCAGAACAAGCCAATGACCTGNGAAGATATTTTTATT CAGCAGGAAAAATGATTCAATTTTTAAACAAAATGTAACAGATGGCAGTACTGAGTTTGA TTTATAATACCAGAGTCTTACTAACTCCTTTGAAATACTAGAAAGTTNNTGTTTGGATG ATGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK092998
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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="#">AK092998.1</a>
<b>RefSeq Size:</b>	3030 bp
<b>RefSeq ORF:</b>	3030 bp
<b>Locus ID:</b>	10009
<b>Cytogenetics:</b>	Xq24

**Gene Summary:**

This gene encodes a transcriptional regulator with bimodal DNA-binding specificity, which binds to methylated CGCG and also to the non-methylated consensus KAISO-binding site TCCTGCNA. The protein contains an N-terminal POZ/BTB domain and 3 C-terminal zinc finger motifs. It recruits the N-CoR repressor complex to promote histone deacetylation and the formation of repressive chromatin structures in target gene promoters. It may contribute to the repression of target genes of the Wnt signaling pathway, and may also activate transcription of a subset of target genes by the recruitment of catenin delta-2 (CTNND2). Its interaction with catenin delta-1 (CTNND1) inhibits binding to both methylated and non-methylated DNA. It also interacts directly with the nuclear import receptor Importin- $\beta$ 2 (also known as karyopherin alpha2 or RAG cohort 1), which may mediate nuclear import of this protein. Alternatively spliced transcript variants encoding the same protein have been identified.[provided by RefSeq, May 2010]