

Product datasheet for **RG230416**

Kaiso (ZBTB33) (NM_001184742) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kaiso (ZBTB33) (NM_001184742) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kaiso
Synonyms:	ZNF-kaiso; ZNF348
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG230416 representing NM_001184742
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGAGAGTAGAAAAGTATTTCTGCTACAGACATTCAGTACTCTGGCAGTCTGCTGAACCTCTGAATG
 AGCAACGTGGCCATGGACTCTTCTGTGATGTTACCGTTATTGTGGAAGACCGAAAATTCGGGCTCACAA
 GAATATTCTTTTACGCTTCTAGTACCTACTTCCATCAGCTCTTCTGTTGCTGGGCAAGTTGTTGAAGT
 AGCTTTATAAGAGCAGAGATCTTGCAGAAATCTCAATTATATCTATAGTTCTAAAATTTGTTGCTGTTA
 GATCAGATTTGCTTGTGAGTTAATTAATCAGGGCAGTTATTAGGAGTGAAATTTATAGCAGAGCTTGG
 TGTCCCATTTGTCACAGGTTAAAGCATCTCAGGTACAGCGCAGGATGGTAATACTGAGCCTTTACCTCCT
 GATTCTGGTGACAAGAACCTTGAATACAGAAATCAAAGATGAAGCCCAAGATAATGGGGCTACTATAA
 TGCCTATTATAACAGAGTCTTTTTTATTATCTGCCGAAGATTATGAAATGAAAAAGATCATTGTTACCGA
 TTCTGAT
 AATAACACAGTGGCACAGGTCCAATCTAACCCAGGCCCTGTTGCTATTTAGATGTTGCACCTAGTGCTA
 GCAATAACTCGCCCCCTTTAACAATATCACACCTACTCAGAAATTCCTACTCCTGTGAATCAGGCAAC
 TTTGAGCCAAACACAAGGAAGTAAAAATTTGTTGGTATCTTCAGCTCCAACACATCTGACTCCCAATATT
 ATTTTGTAAATCAGACACCACTTTCTACACCACCAATGTGAGTTCTTCACTTCCAAATCATATGCCCT
 CTTCAATCAATTTACTTGTGAGAATCAGCAGACCAACAGTGCTATTTTAACAGGAAACAAGGCCAA
 TGAAGAGGAGGAGGAGGAAATAATAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
 AGTAATACATCTTTGGTCCCACAGGCTGATACCTCCCAAAATACCAGTTTGTGATGGATCATTAAATACAGA
 AGATGCAGATTCTTCACTTCTTCAAGAACCCTTTCCAATTCCTTAAAAATTTAGATATAATTACTAG
 AAATACTAATGATCCAGCGTAGGATCAAAACATCTAATGGAGGGTCAGAAGATCATTACTTTAGATACA
 GCTACTGAAATTGAAGGCTTATCGACTGGTTGCAAGGTTTATGCAAAATATCGGTGAAGATACTTATGATA
 TAGTGATCCCTGTCAAAGATGACCTGATGAAGGGGAGGCCAGACTTGAGAATGAAATACCAAAAACGTC
 TGGCAGCGAGATGGCAAACAAACGATGAAAGTAAACATGATGATCACTATGAGTTAATAGTAGATGGA
 AGGGTCTATTATATCTGATTGTATGCAAAAGGTCATATGTCTGTCTGACAAGCTTGCGGAGACATTTTA
 ACATTCATTCTTGGGAGAAGAAGTATCCGTGCCGTTACTGTGAGAAGGTATTTCTCTTGCAGAATATCG
 CACAAAGCATGAAATTCATCACACAGGGGAGCGAAGGTATCAGTGTGCGCTGTGGCAATCTTTCATC
 AACTATCAGTTTATGTCTTACATATAAAGTCAGTTTATAGTCAAGATCCTTCTGGGACTCAAAGCTTT
 ATCGTTTACATCCATGCAGGTCTTTACAAATCAGACAATATGCATATCTTCCGATAGATCAAGCACTAT
 TCCTGCAATGAAGGATGATGGTATTGGGTATAAGGTTGACACTGGAAAAGAACCTCCAGTAGGGACCACT
 ACATCTACTCAGAAACAGCAATGACCTGGGAAGATATTTTATTCAGCAGGAAAATGATTCAATTTTAA
 AACAAAATGTAACAGATGGCAGTACTGAGTTTGAATTTATAATACCAGAGTCTTAC

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG230416 representing NM_001184742
 Red=Cloning site Green=Tags(s)

MESRKLISATDIQYSGSLLNSLNEQRGHGLFCDVTIVEDRKFRHKNILSASSTYFHLFSVAGQVVEL
 SFIRAEIFAELNYIYSSKIVRVRSDLLDELIKSGQLLVKFIAGLVPLSQVKSISGTAQDGNTEPLPP
 DSGDKNLVIQKSKDEAQNATIMPIITESFSLAEDYEMKKIIVTSDDDDDDDVIFCSEILPTKETLPS
 NNTVAQVQSNPGPVAISDVAPSASNNSPPLTNITPTQKLPTPVNQATLSQTQGEKLLVSSAPHTLTPNI
 ILLNQTPNSTPPNVSSSLPNHMPSSINLLVQNQQTPNSAILTGKNANEEEEEEIIDDDDDTISSSPDSAV
 SNTSLVPQADTSQNTSFDGSLIQMKQIPTLLQEPLSNLSKISDIITRNTNDPGVGSKHLMEGQKIITLDT
 ATEIEGLSTGCKVYANIGEDTYDIVIPVKDDPDEGEARLENEIPKTSSEMANKRMKVKHDDHYELIVDG
 RYVYICIVCKRSYVCLTSLRRHFNHSWEKKYPCRYCEKVFPLAEYRTKHEIHHTGERRYQCLACGKFSI
 NYQFMSSHIKSVHSQDPGDSKLYRLHPCRSLLQIRQYAYLSRSTIPAMKDDGIGYKVDGKEPPVGT
 TSTQNKPMTWEDIFIQQENDSIFQNVTGSTEFEFIIPESY

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001184742

ORF Size: 2016 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_001184742.2](#)

RefSeq Size: 5324 bp

RefSeq ORF: 2019 bp

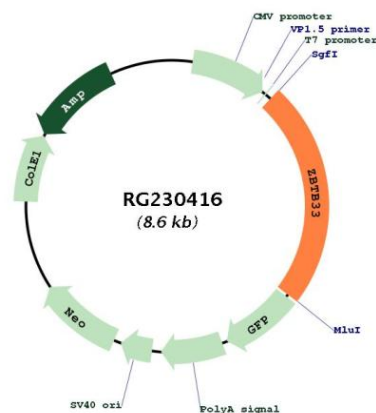
Locus ID: 10009

UniProt ID: [Q86T24](#)

Cytogenetics: 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- α 2 (also known as karyopherin α 2 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]

Product images:



Circular map for RG230416