

Product datasheet for **RG207287**

Kaiso (ZBTB33) (NM_006777) Human Tagged ORF Clone

Product data:

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



ORF Nucleotide Sequence: >RG207287 representing NM_006777
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAGTAGAAAAACTGATTTCCTGCTACAGACATTTCAGTACTCTGGCAGTCTGCTGAACTCCTTGAATG
AGCAACGTGGCCATGGACTCTTCGTGATGTTACCGTTATTGTGGAAGACCGAAAAATTCGGGGCTCACAA
GAATATTCCTTCAGCTTCTAGTACCTACTTCCATCAGCTCTTCTCTGTTGCTGGGCAAGTTGTTGAACTG
AGCTTTATAAGAGCAGAGATCTTTGCAGAAATCTCAATTATATCTATAGTCTCTAAAATTGTCGTGTTA
GATCAGATTATGCTTGATGAGTTAATTAATCAGGGCAGTTATAGGAGTGAATTTATAGCAGAGACTTGG
TGCCCTTATGTACAGGTTAAAAAGCATCTCAGGTACAGCGCAGGATGGTAATACTGAGCCTTTACCTCT
GATTCTGGTGACAAGAACCTTGTAAATACAGAAATCAAAAGATGAAGCCCAAGATAATGGGGCTACTATAA
TGCCTATTATAACAGAGTCTTTTTTATTATCTGCCGAAGATTATGAAATGAAAAAGATCATTGTTACCGA
TTCGTGATGATGATGATGATGATGATGATGTCATTTTTTGTCTCCGAGATTCTGCCACAAAGGAGACTTTCGG
AGTAATAACACAGTGGCACAGGTCCAATCTAACCCAGGCCCTGTTGCTATTTTCAGATGTTGCACCTAGTG
CTAGCAATAACTCGCCACCTTTAACAAATATCACACCTACTCAGAAACTTCTACTCTGTGAATCAGGC
AATTTTGAGCCAAACAGGAAGTGAATAATGTTGGTATCTTCAGCTCCAACACATCTGACTCCCAAT
ATTATTTGTTAAATCAGACACCTTTTACACACCAAAATGTCAGTCTTCTCAGTCCAAATCATATGC
CCTCTTTCAATTAATTTACTTGTGTCAGAACACGACAGCAAAACAGCATGCTATTTTAACAGAAACAAGGC
CAATGAAGAGGAGGAGGAGGAAATATAGATGATGATGATGACACTATTAGCTCCAGTCTGACTCGGCC
GTCAGTAATACATCTTTGGTCCCACAGGCTGATACCTCCCAAAATACCAGTTTTGATGGATCATTAAATAC
AGAAGATCGAGATTCCTACACTTCTTCAAGAACCACTTTCAAATTCCTTAAAAATTTTCAGATATAATTAC
TAGAAATACTAATGATCCAGGCGTAGGATCAAAACATCTAATGGAGGGTCAGAAGATCATTACTTTAGAT
ACAGCTACTGAAATGAAGGCTTATCGACTGGTTGCAAGGTTTATGCAAAATCTCGGTGAAGATACCTTATG
ATATAGTGAATCCCTGTCAAGATGACCGTGATGAAGGGGAGCCACAGTTGAGAATGAAATACCAAAATG
GCTGGCAGCAGATGAGCAAAACAAAGCTATGAAAGTAAAAACATGATGATCACTATGAGTTAATAGTAGAT
GGAAGGGTCTATTATATCTGTATTGTATGCAAAAGGTCATATGTCTGTCTGACAAGCTTGCGGAGACATT
TTAACATTCATTCTTTGGGAGAAGAAGTATCCGTGCCGTTACTGTGAGAAGGTATTTCTCTTGCAGAATA
TCGCACAAAGCATGAAATTCATCACACAGGGGAGCGAAGGTATCAGTGTTTGGCCTGTGGCAATCTTTC
ATCAACTATCAGTTTATGTCTTACATATAAAGTCAGTTCATAGTCAAGATCCTTCTGGGGACTCAAAGC
TTTATCGTTTACATCCATGCAGGTCTTTACAAATCAGACAATATGCATATCTTTCGATAGATCAAGCAC
TATTCCTGCAATGAAGGATGATGGTATTGGGTATAAGGTTGACACTGGAAAAGAACCTCAGTAGGGACC
ATCACTACTTACAGAAACAGCAAGCTGACCTGGGAAGATATTTTATCAGCAGGAAAATGATTCAATTT
TAAACAAATGTAAACAGATGGCAGTCACTGAGTTTGAATTTATAATACCAAGAGTCTTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207287 representing NM_006777
Red=Cloning site Green=Tags(s)

MESRKLISATDIQYSGSLNLSNEQRGHGLFCDVTVIVEDRKFRAHKNILSASSTYHQFLFSVAGQVVEL
SFIRAEIFAEILNYIYSSKIVRVRDLLDELIKSGQLLGVKFIAELGVPLSQVKSISGTAQDNGTEPLP
DSGDKNLVIQSKDEAQDNGATIMPIITESFSLSAEDYEMKKIIVTSDDDDDDDVIFCSEILPTKETLP
SNNTVAQVQSNPGVAISDVAPASANNPPLTNITPTQKLPTPVNQATLSQTQSGEKLTVSSAPHTLTPN
IILLNQTPLSTPPNVSSSLPNHMPSSINLLVQNQQTPSAILTGNKANEEEEEEIIDDDDDTISSSPSA
VSNTSLVPQADTSQNTSFDGSLIQKMQIPTLLQEPLSNLSKISDIITRNTNDPGVSGSKHLMGQKIITLD
TATEIEGLSTGCKVYANIGEDTYDIVPVKDDPDGEARLENEIPKTSSEMANKRMKVKHDDHYELIVD
GRVYYICIVIKSVYSLTSLRRHFNLSWEKKYPCRYCEKVFPLAEYRTKHEIHHTGERRYQCLACGKSF
INQFMSSHICKSVSQDPSGDGSLYRLHPGSLQIRQYAYLSDRSTIPAMKDDGIGYKVDTKGPEPVGT
TTSTONKPMTWEDIFIOQENDSIFKQNVTDGTSFEFFIIPESY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006777

ORF Size: 2019 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_006777.3](#), [NP_006768.1](#)

RefSeq Size: 5225 bp

RefSeq ORF: 2019 bp

Locus ID: 10009

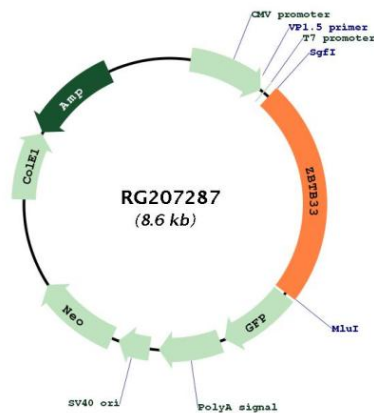
UniProt ID: [Q86T24](#)

Cytogenetics: Xq24

Domains: BTB, zf-C2H2

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 RG207287