

Product datasheet for **RG207593**

ZNF45 (NM_003425) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZNF45
Synonyms:	KOX5; ZNF13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG207593 representing NM_003425
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGACGAAGTCTAAGGAGGCAGTGACATTCAGGACGTGGCTGTGGTCTTCTCTGAGGAGGAGCTGCAAC
 TGCTGGACCTTGCCAGAGGAAGCTGTACCGAGATGTGATGCTGGAGAATTCAGGAATGTGGTCTCAGT
 GGGGCATCAGTCCACACAGATGGCCTACACAGTTAGAGAGAGAAGAAAGCTGTGGATGATGAAGATG
 GCAACCCAGAGAGATACTCCTCAGGAGCCAAGAAATCTAAAGAGATGGAGACTCTTCAAGAAGTAGGAT
 TAAGGTACCTGCCTCATGAAGAGCTTTTCTGCTCCAGATCTGGCAACAGATTACAAGAGAGTTAATCAA
 GTATCAAGATTCTGTGGTAAATATTCAAAGAACAGGCTGCCAGTTGGAAAAACGAGATGATTTGCACTAT
 AAAGATGAGGGATTCACTAATCAGAGTCCCATCTTCAAGTTCACAGAGTCCCACTGGTAAAAACCTT
 ACAAAGGAGAACATTGTGTAAAAAGTTTTCAGCTGGAGCTCTCATCTTCAAATTAACCAAGGGCTCACGC
 AGGAGAGAAGCCCTACAAATGTAAAAATGTGATAATGCCTTCCGTCGGTTTTCAAGTCTTCAAGCCCAT
 CAGAGAGTCCACAGTAGAGCAAAATCATACACAAATGATGCAAGTTACAGGAGTTTTAGTCAGAGGTCAC
 ATCTTCCCCATCATCAGAGAGTTCCCACTGGAGAGAATCCATACAAATATGAAGAGTGTGGGAGGAATGT
 TGGGAAAAGCTCACATTGTCAAGCTCCTCTGATAGTTCATACGGGAGAGAAACCTATAAATGTGAGGAG
 TGTGGGGTGGGCTTCAGTCAGAGATCATATCTTCAAGTTCATCTGAAAGTTCACACTGGAAGAAACCAT
 ATAAGTGTGAAGAGTGTGGGAAGAGCTTCAGTTGGCGTTCACGACTGCAGGCTCATGAGCGAATCCACAC
 TGGCGAGAAACCATACAAATGCAATGCATGTGGCAAGAGCTTTAGTTACAGCTCACACCTTAATATTCAT
 TGTAGAATCCACACAGGAGAGAAACCTATAAGTGTGAGGAGTGTGGGAAAGTTTCAGTGTGGTTTAC
 ACCTTCAGGCCCATCAGATAAGCCCACTGGAGAGAAGCCATACAAATGTGAGGAGTGTGGGAAAGGCTT
 CTGCCGGGCTCAAATCTGCTGGACCATCAAAGAGGCCATACTGGAGAGAAACCGTATCAGTGTGATGCA
 TGTGGTAAGGGCTTCAGTCGAGCTCAGATTTTAACTTCATTTTAGAGTCCATACAGGGGAAAAACCTT
 ATAAATGTGAGGAGTGTGGCAAGGGCTTCAGCCAGGCTCAAATCTTCTGGCCCATCAAAGAGGCCACAC
 TGGAGAGAAACCTACAAATGTGGTACATGTGGGAAGGGCTTCAGTCGGAGCTCAGATCTTAATGTACAC
 TGTAGAATCCACACAGGAGAGAAACCTATAAATGCGAGAGGTGTGGTAAGGCCTTCAGTCAGTTCTCCA
 GCCTTCAGGTGCATCAGAGAGTTCACACTGGAGAGAAACCATATCAGTGTGCAGAGTGTGGGAAAGGCTT
 CAGTGTAGGTTACAGCTTCAAGCCCATCAGAGGTGCCCACTGGAGAGAAACCTATCAATGTGAGGAG
 TGTGGGAAGGGCTTCTGTCGGGCTCCAATTTTCTGGCACATCGTGAGTCCACACAGGAGAAAAACCAT
 ACCGATGTGATGTGTGTGGTAAGCGCTTCAGACAGAGATCCTACCTTCAAGCCACAGAGGGTCCACAC
 AGGAGAGAGACCATAACAAATGTGAGGAATGTGGGAAAGTCTTCAGCTGGAGCTCATACCTTCAAGCCCAT
 CAAAGAGTTCACACCGGAGAAAAACCATACAAATGTGAGGAGTGTGGGAAAGGGCTTCAGTTGGAGCTCAA
 GTCTTATCATTATCAGCGAGTCCATGCTGATGATGAGGGTGACAAGGACTTTCCTTCATCAGAGGATTC
 ACACAGGAAAACTCGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207593 representing NM_003425
 Red=Cloning site Green=Tags(s)

MTKSKEAVTFKDVAVVFSEELQLDLAQRKLYRDVMLENFRNVSVGHQSTPDGLPQLEREKLMWMMK
 ATQRDNSSGAKNLKEMETLQEVGLRYLPHEELFCSQIWQQITREL IKYQDSVVNIQRTGCQLEKRDLDHY
 KDEGFSNQSSHLQVHRVHTGEKPYKGEHCVKFSWSSHLQINQRAHAGEKPYKCEKCDNAFRFRFSSSLQAH
 QRVHSRAKSYTNDASYRSFSQRSHLPHHQVPTGENPYKYEECGRNVGKSSHQAPLIVHTGEKPYKCEE
 CGVGFQSRSYLQVHLKVHTGKKPYKCEECGKFSWRSRLQAHRIHTGEKPYKCNACGKFSYSYSHLNIH
 CRIHTGEKPYKCEECGKFSVGSYSLQAHQISHTGEKPYKCEECGKFCRASNLLDHQRGHTGEKPYQCD
 CGKFSRSDFNHFRVHTGEKPYKCEECGKFSQASNLDAHQRGHTGEKPYKCGTCGKFSRSDLNH
 CRIHTGEKPYKCEECGKFSQFSSQLQVHRVHTGEKPYQCAECGKFSVGSYSLQAHQRCHTGEKPYQCEE
 CGKFCRASNLHARGVHTGEKPYRCDVCGKFRQRSYLAHQRVHTGERPYKCEECGKFSWSSYLAHQ
 QRVHTGEKPYKCEECGKFSWSSSLIIHQRVHADDEGDKDFPSSSDSHRKT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003425

ORF Size: 2046 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.

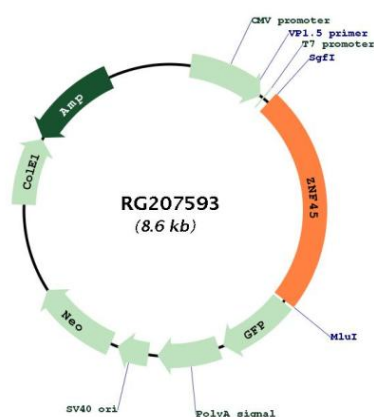
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_003425.2](#), [NP_003416.1](#)

RefSeq Size: 3178 bp

RefSeq ORF:	2049 bp
Locus ID:	7596
UniProt ID:	Q02386
Cytogenetics:	19q13.31
Domains:	KRAB, zf-C2H2
Protein Families:	Transcription Factors
Gene Summary:	May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207593