

Product datasheet for **RG228524**

ZNF44 (NM_001164276) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF44 (NM_001164276) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF44
Synonyms:	GIOT-2; KOX7; ZNF; ZNF55; ZNF58; ZNF504
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG228524 representing NM_001164276
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCCCTGTGTTATGGAACCTTTCTGGGGCTACCCTAAGATGCTGGAAGCTGCCAATCTCATGGAGGGCC
 TAGTGGATATCGGCCCTTGGGTCACTCTCCAGAGGACAGCCTGAGGTGTTGGAGTGGGCCTCCCAAA
 GGATCAGGACTCAGTGGCCTTTGAGGATGTGGCTGTGAACCTCACCCATGAGGAGTGGGCTTTGCTGGGT
 CCATCACAGAAGAATCTCTACAGAGATGTGATGCGAGAAACCATAGGAACCTGAAGTGTATAGGAATGA
 AATGGGAAACAGAACATTGATGATCAGCACCAAAATCTCAGGAGAAATCCAAGGTGTGATGTGGTAGA
 GAGATTTGGTAAAGTAAAGATGGTAGTCAGTGTGGAGAAACCTTAAGCCAGATTCGAAATAGTATTGTA
 AACAGAACACTCCCGCCAGAGTAGATGCATGTGGAAGCAGTGTGAATGGAGAAGTCATAATGGGTCAAT
 CATCCCTGAATTGCTACATCAGAGTTGATACTGGACACAAACACCGGGAGTGTCAATATGCAGAGAA
 GTCATATACACATAAGCAGTGTGGAAAGGCTTAAGTTATCGCCACTCCTTTCAAACATGTGAAAGGCCT
 CACACTGGAAAGAAACCTATGATTGTAAGGAATGTGGAAAAACCTTCAGTTCTCCTGGAAACCTTCGAA
 GACATATGGTAGTAAAGGTGGAGATGGACCTTATAAATGTGAATTGTGTGGAAAGCCTTTTTTGGCC
 CAGTTTATTACGTATGCATGAAAGAACTCACACTGGAGAGAAACCATATGAATGTAAGCAGTGTCTAA
 GCCTTCCTCTGTTACAGTTCCTATCTAAGACATGAAAAATACACACTGGGGAGAAACCGTATGAATGTA
 AGCAGTGTCTAAAGCCTTCCTGATTACAGTTTATCTAAGACATGAAAGAACTCACACTGGAGAGAA
 ACCCTACAAATGTAACAATGTGGGAAAGCCTTCAGTGTTCGGTTCCTTCGAGTACATGAAAGAATT
 CACACTGGAGAGAAACCTATACATGTAACAGTGTGGGAAAGCGTTTGTCACTTGGAAAGCTTTCAAA
 GACACATGATAATGCACAGTGGAGATGGACCTCATAAATGTAAGATATGTGGGAAAGCCTTTGATTTCC
 TGGTTCAGCACGAATTCATGAAGGAACTCACACTCTAGAGAAACCTATGAATGTAAGCAATGTGGGAAA
 TTGTTATCTCATCGCTCAAGCTTTCGAAGACACATGATGGCACACACTGGAGATGGCCCTCATAAATGCA
 CAGTATGTGGGAAAGCCTTTGATTCTCCTAGTGTATTTCAAAGACATGAAAGGACTCACACTGGAGAGAA
 ACCCTATGAATGCAAGCAATGTGGGAAAGCCTTCCTACTTCCAGTTCCTTCGAAACATGAAACAACA
 CACACTGGAGAGCAACCTATAAATGTAATGTGGGAAAGCTTTAGTGATTTATTTCTTTCAAAGTC
 ATGAAACAACACACAGTGAAGAGGAGCCTTATGAATGTAAGGAGTGTGGGAAAGCATTAGTTCTTTTAA
 ATACTTTTGTGCGCATGAAAGGACTCACAGTGAAGAAAAATCTTATGAGTGTCAAATTTGTGGCAAAGCC
 TTCAGTCGTTTCAGTTACTTAAAACTCATGAAAGGACTCACACGCAGAGAAGCCATATGAATGTAAGC
 AATGCAGGAAAGCATTCTTTGGCCCTCTTCTTCTAAGACATGAAAGGACTCACACTGGAGAAAGACC
 CTATGAATGTAACACTGTGGTAAAGCCTTCAGTCGTTCCAGTTTCTGTGAGAACATGAAAGAACTCAC
 ACTGGAGAGAAGCCCTATGAATGTAAGGAATGTGGGAAAGCCTTCAGTTCTCTCAGTTCTTTAATAGAC
 ATAAAAGGACACACTGGAAGGATATTCTA

ACGCGTACGCGGGCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG228524 representing NM_001164276
 Red=Cloning site Green=Tags(s)

MALCYGTFWGYPKMLEAANLMEGLVDIGPWVTLPRGQPEVLEWGLPKDQDSVAFEDVAVNFTHEEWALLG
 PSQKNLYRDMRETIRNLNLCIGMKWENQNIDDQHQLRRNPRCDVVERFGKSKDGSQCGETLSQIRNSIV
 NKNTPARVDACGSSVNGEVIMGHSSLNICYIRVDIGHKHRECHYEAKSYTHKQCGKLSYRHSFQTCERP
 HTGKKPYDCKEKGKTFSSPGNLRRHVVKGDDGPKYKCELCGKAFFWPSLLRMHERHTHTGEKPYECKQCSK
 AFPVYSSYL RHEKIHTGEKPYECKQCSKAFFPDYSSYL RHERHTHTGEKPYCKQCGKAFSVSGSLRVHERI
 HTGEKPYTCKQCGKAFCHLGSFQRHMIMHSGDGPCHKCKICGKGDFPGSARIHEGHTHTLEKPYECKQCGK
 LLSHRSSFRHMAHTGDGPHKCTVCGKAFDSPSVFQRHERHTHTGEKPYECKQCGKAFRTSSSLRKHETT
 HTGEQPYKCKCGKAFSDLFSQSHETTHSEEPYECKEKGKAFSSFKYFCRHERHTHSEKSYECQICGKA
 FSRFSYLKTHERTHTAEKPYECKQCRKAFFWPSFLLRHERHTHTGERPYECKHCGKAFSRSSFCREHERHT
 TGEKPYECKEKGKAFSSLSFNHRKTHWKDIL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001164276

ORF Size: 1989 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001164276.2](#)

RefSeq Size: 2818 bp

RefSeq ORF: 1992 bp

Locus ID: 51710

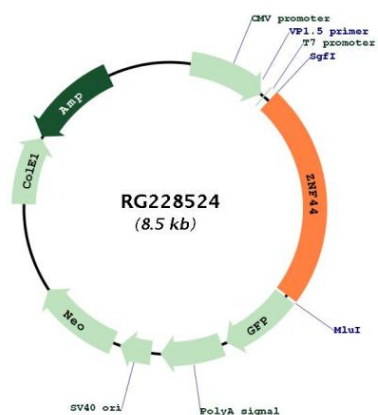
UniProt ID: [P15621](#)

Cytogenetics: 19p13.2

Protein Families: Transcription Factors

Gene Summary: May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG228524