

Product datasheet for **RG210960**

ZNF50 (ZSCAN22) (NM_181846) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF50 (ZSCAN22) (NM_181846) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF50
Synonyms:	HKR2; ZNF50
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210960 representing NM_181846
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCCATCCCCAAGCACTCCCTGAGCCCAGTGCCGTGGGAAGAGGACAGCTTCCTTCAAGTGAAGGTGG
 AGGAGGAAGAGGAAGCCAGCCTCTCCAGGGCGGAGAATCCAGCCATGACCACATTGCTCACTCTGAGGC
 TGCACGCCTGCGCTTCCGGCACTTCCGCTATGAGGAGGCATCTGGTCCACACGAGGCCCTGGCCACCTC
 CGAGCGCTGTGCTGTCACTGGCTGCAGCCCAGGCGCACTCCAAGGAGCAGATACTGGAGCTGCTGGTGC
 TGGAGCAGTTCTGGGTGCGCTGCCCCAGAGATCCAAGCCTGGTGGGAGCCAGAGTCCCAAGAGCGG
 AGAGGAAGCCGCTGTGCTGGTGGAGGATCTGACTCAGGTGCTGGACAAGAGAGGATGGGATCCAGGAGCC
 GAGCCACAGAGGCAAGCTGCAACAGAGTGACCTGGGAGAGTCAGAGCCATCAAATGCTCACTGAGACCC
 TCATGGGAGGTGTTCCCTTGGACCCGCTTTGTCAAGGCATGTGAACCTGAGGGCAGCTCAGAGAGGTC
 TGGACTATCAGGGGAGATCTGGACAAAGTCTGTACCCAACAGATCCACTTCAAGAAAATTCAGGGCCT
 TACAAGGATGTCCCCACAGACCAGCGTGGCCGTGAATCTGGTGCCTCGAGGAACAGTTCTAGTGCCTGGC
 CAAACCTCACCTCCCAAGAGAAGCCTCCTTCAGAAGACAAATTTGATCTGGTGGATGCTTATGGGACAGA
 GCCTCCATACACCTACTCAGGAAGAGGTCTCCAAGTGTGCGGAGTGTAGGAAGATGTTCCAGAGTGCT
 TCGGCGCTCGAGGCACACCAGAAGACCCATTCTCGGAAGACCCCATATGCTGCAGCGAGTGTGGGAAAG
 CCTTCAGCCGGAGCACTCACCTCGCCAGCACCAGGTTGTCCACACAGGGGCGAAGCCCCATGAGTGTA
 GGAATGTGGGAAGGCCTTCAGCCGAGTCACCCACCTGACTCAGCACCAAGGATTCACTGGAGAGAAA
 CCCTACAAATGTGGGAATGTGGTAAACCTTCAGCCGAGCACTCACCTCACCCAGCACCAGCGGGTGC
 ACACGGGGGAGCGGCCCTACGAGTGTGACGCGTGTGGGAAAGCCTTCAGCCAGAGCAGCACCTGACTCA
 ACCAGCGCATCCACACCGGGGAGAAGCCCTACAAGTGTGACGCGTGTGGCCGAGCCTTCAGCGACTGC
 TCAGCCCTGATCCGACATCTGAGAATCCACTCTGGAGAGAAGCCATATCAGTGTAAAGTTTGTCCGAAGG
 CCTTTGCACAGAGCTCTCCCTCATTGAGCACCAGAGGATCCACACGGGAGAGAAGCCTTATAAGTGCAG
 CGACTGTGGGAAGGCCTTCAGTCGTAGCTCAGCCCTGATGGTTCATTGCGGATCCACATCACGGTGCTG
 CAA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210960 representing NM_181846
 Red=Cloning site Green=Tags(s)

MAIPKHSLSPPVWEEDSFLQVKVEEEEEASLSQGGESSHDHIAHSEAARLRFHFYEEASGPHEALHL
 RALCCQWLQPEAHSKEQILELLVLEQFLGALPPEIQAWVGAQSPKSGEEAAVLVEDLTQVLDKRGWDPGA
 EPTASCKQSDLGESEPSNVTETLMGGVSLGPAFVKACEPEGSSERSGLSGEIWTKSVTQQIHFKKTS
 YKDVPDQRGRESGASRNSSAWPNLTSQEKPPSEDKFDLVDAYGTEPPYTYSGKRSSKRECRKMFQSA
 SALEAHQKTHSRKTPYACSECGKAFSRSTHLAQHQVVHTGAKPHECKEKGKAFSRVTHLTQHQRHTGK
 PYKCGECGKTFSRSTHLTQHQRVHTGERPYECDACGKAFSQSTHLTQHQRHTGKPYKCDACGRAFS
 SALIRHLRIHSGEKPYQCKVCPKAFQSSSLIEHQRIHTGKPYKSDCGKAFSRSSALMVHLRIHITVL
 Q

SGPTRTRRLE – GFP Tag – V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_181846

ORF Size: 1473 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_181846.1](#), [NP_862829.1](#)

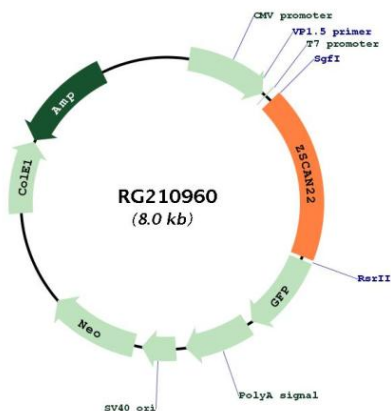
RefSeq Size: 4648 bp

RefSeq ORF: 1476 bp

Locus ID: 342945

UniProt ID: [P10073](#)
 Cytogenetics: 19q13.43
 Protein Families: Druggable Genome
 Gene Summary: May be involved in transcriptional regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG210960