

Product datasheet for **RG224060**

ZNF509 (ZBTB49) (NM_145291) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZNF509
Synonyms:	ZNF509
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG224060 representing NM_145291
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGACCTGTTGCTACCCACAGCTGCCATCTGCTCCAGCAACTGCATGAGCAGCGAATCCAAGGCCTGC
 TTTGTGACTGTATGTTGGTGGTAAAAGGAGTCTGCTTTAAAGCGCATAAGAATGTCCTGGCAGCATTTCAG
 CCAGTATTTTAGGAGCCTCTTTCAGAAATCTTCAAGCCAGAAGAATGATGTTTTTCACTTGGATGTTAA
 AATGTCAGTGGCATAGGCGAGATCCTGGACTTCATGTACACTTCTCATCTAGATCTTAAACGAGACAATA
 TACAAGTAATGCTGGACACAGCAGTGTTCAGAGTTCAAAATGTTCTGAGTCTGTGTACACATTTTT
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 GGCGAACCACTGCAGGCCGATGGCATGGCCATGATCCGTTCTCTGCGTGTGTTGGACAACACGCGG
 GTGACCCCTGGGAGTCGAGCATCTTCCACCACTTATAGGAACTCAGAGGGTCAGTTTTTCTCCAGCAT
 GACTCTCTGGGGCTAGCGATGAAGACGCTGCAGAATGAAAACGAGTTAGACCAG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224060 representing NM_145291

Red=Cloning site Green=Tags(s)

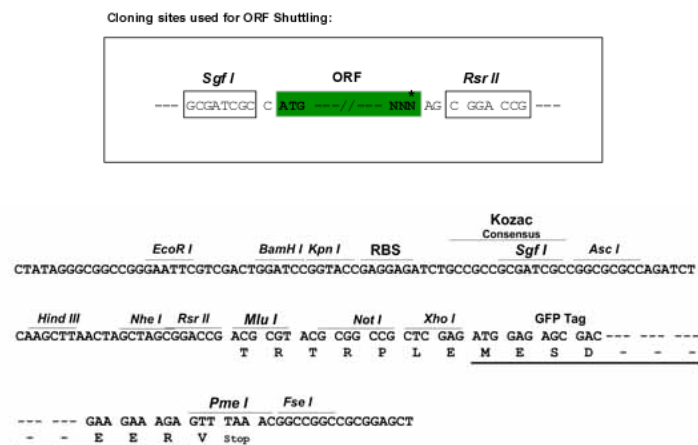
MDPVATHSCHLLQQLHEQRIQGLLCDMCLVVKGVCFKAHKNVLAASFQYFRSLFQNSSSQKNDVFHLDVK
 NVSGIGQILDfMYTSHLDLNQDNIQVMLDTAQCLQVQNVLSLCHTFLKSATVVQPPGMPNCSTLSLQSTL
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 QSAEEKESEEVVSCENFNCISETERPEDPAALeDQSQTLSQSRQYACELCGKPFKHPNLELHKRSHTGE
 KPFECNICGKHFSQAGNLQTHLRRHSGEEPYICEICGRFAASGDVQRHIIHSGEKPHLCDICGRGFSN
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 KLPVHPVENSVAEFDSHSGSYCKLRSMIQPHGVSDQEKLSDPGKLAKPQMqQTQpQAYASDVdTPAG
 GEPLQADGMAMIRSSLAALDNHGGDPLGSRASSTTYRNSEGQFFSSMTLWGLAMKTLQNEneLDQ

SGPTRRRLE - GFP Tag - V

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN:

NM_145291

ORF Size:

2295 bp

OTI Disclaimer:

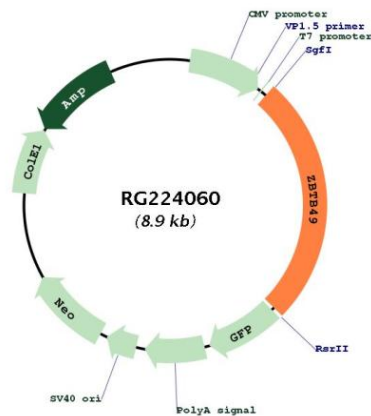
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<u>NM_145291.2</u> , <u>NP_660334.2</u>
RefSeq Size:	2885 bp
RefSeq ORF:	2298 bp
Locus ID:	166793
UniProt ID:	<u>Q6ZSB9</u>
Cytogenetics:	4p16.3
Gene Summary:	Transcription factor. Inhibits cell proliferation by activating either CDKN1A/p21 transcription or RB1 transcription.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG224060