

Product datasheet for **RG224026**

ZFP90 (NM_133458) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ZFP90
Synonyms:	FIK; NK10; zfp-90; ZNF756
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG224026 ORF sequence, **codon optimized**.
Due to the complexity of NM_133458, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCCCTCGACCGCCGACCGCCGCCACAGGAGTCCGTAACCTTCAAAGATGTTAGCGTAGATTTC
CCCAGGAGGAGTGGTACCATGTCGATCCCGCTCAGCGATCTCTGTATCGCGACGTAATGCTGGAAACTA
CTCTCACCTGGTGTCCCTGGGATACCAAGTCTCCAAGCCAGAAGTGATTTTCAAGCTGGAACAGGGGGAG
GAGCCTTGGATCTCAGAGGGAGAAATCCAGCGACCTTTCTACCCAGATTGGAACCGCGCCTGAGGTAA
AATCATCACACTTGCAGCAGGACGTGTCTGAGGTGTACATTGCACACAGACTTGCTCCATGCCACCTT
GGAAAGATTCTTGGACGTTTCTAGCCAGTTGGATAGGCAGCAAGAGAATTGGAACCGCACCTCGGCAGT
GAGGCTTCCACGCAAGAAGATTATAACGCCACAGGAAAACCTTCGAACAGAACAATTTGGAGAGAATA
GCAGACTGAATACTAACCTCGTGACACAGCTGAATATCCAGCAAGAATTAGACCATCAGAATGTGAGAC
ACTCGGAAGCAACCTTGCCATAACGCAGACTTGCTCAACGAGAACAATATTCTGGCAAAGAAGAAACCT
TATAAGTGTGACAAGTGACGGAAGCGTTTATTACCGGTCTCCCTCACAAGCACGAGAAGACACACA
AGGGAGAGGGCGCTTCCCAATGGCACAGACCAGGGGATCTACCGGGGAAAAAGCACCATGAGTGCAC
TGACTGTGGTAAAACGTTCTGTGGAAAGCCCTTAGGCATTATCATCTCTCGGCAACATGAGAAGCGAC
CCATTCGAGTGTAACGTTCTGTGGAAAGCCCTTAGGCATTATCATCTCTCGGCAACATGAGAAGCGAC
ACACGGGAGAGAAGCCTTATCAATGTTCTCTGTGGTAAAGCCTTCCAGAGAAGTAGCAGCCTGGTCCA
GCACCAGAGAATTCACACAGGTGAAAAGCCCTATAGGTGCAACCTGTGCGGTGGAAGCTTCCGCCACGGT
ACATCCCTGACACAGCAGCAAGTGACACACTCTGGCGAAAAGCCATTCCAGTGTAAGGAATGCGGCAAAG
CGTTCTCCCGGTGCTCTCTCTGGTGCAGCAGCGACCCACACTGGAGAAAAGCCGTTTCAATGCTC
TATTTGTGGAAGAGCATTGCGCCAGTCCCCCTCCCTGTACAAGCACATGAGAATTACAAAAGGGGTAAA
CCTTACCAGAGTTCTAATTACTCTATTGACTTCAAGCACAGTACATCTCTGACACAAGATGAATCCACCC
TGACTGAAGTTAAAAGCTATCATTGTAATGACTGCGGTGAAGACTTTTCACACATCACAGACTTCACCGA
CCACCAGCGCATCCACACCGCAGAAAATCCTTACGATTGCGAGCAGGCCTTAGCCAGCAGCGCATCAGC
CATCCAGGTGAAAAGCCATACCAATGCAACGTCTGCGGAAAGGCGTTTAAAGAGAAGCACAAGTTTATCG
AGCACCATCGCATCCACACCGGAGAGAAAACCTTATGAGTGCAATGAATGCGGGGAGGCTTCTCCCGGCG
GAGCTCTCTCACTCAACACGAACGCACGCATACAGGCGAGAAAACCGTACGAATGTATCGATTGTGGAAG
GCCTTCTCCAGTCCTCATCTACTGATACAGCAGCAGCGGACTCATACCGGAGAAAAGCCATATGAATGTA
ATGAGTGCGGAAGAGCCTTACGAAAAAGACTAATCTGCATGACCACAGAGGATTACACTGGCGAGAA
GCCCTATTCTGCAAGGAGTGTGGCAAAAATTTTCCGCGAGCTCTGCCCTACCAAACATCAAAGAATT
CATACTAGAAATAAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

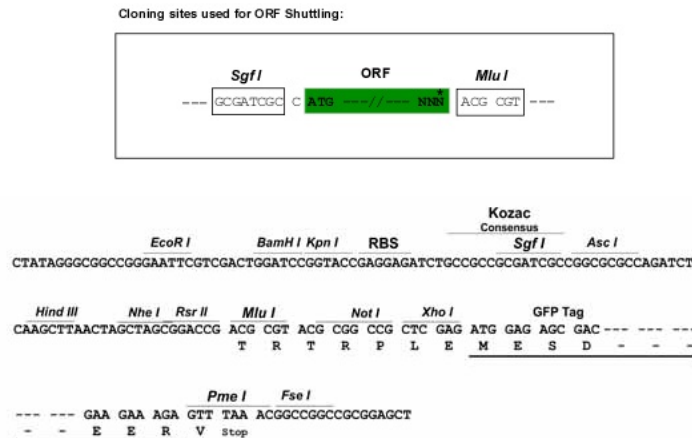
Protein Sequence: >RG224026 representing NM_133458
Red=Cloning site Green=Tags(s)

MAPRPPTAAPQESVTFKDVSVDFTEQEWYHVDPAQRSLYRDVMLENYSHLVSLGYQVSKPEVIFKLEQGE
EPWISEGEIQRPFYDPWKTRPEVKSSHLQQDVSEVSHCTHLLHATLEDSWDVSSQLDRQQENWKRHLGS
EASTQKKIITPQENFEQNKFGENSRLNTNLVTQLNIPARIRPSECETLGSNLGHNADLLNENNILAKKKP
YKCDKCRKAFIHRSSLTKHEKTHKGEGAFPNGTDQGIYPGKKHHECTDCGKTFWLKTLQTEHQRIHTGEK
PFECNVCGKAFRHSSSLQHENAHTEKPYQCSLCKAFQSSSLVQHQRHTGEKPYRCNLGRSFRHG
TSLTQHEVTHSGEKPFCQCEGKAFSRCSLVQHERHTGEKPFECISGRAFGQSPSLYKHMRIHKRGK
PYQSSNYSIDFKHSTSLTQDESTLTVKSYHCNDCGEDFSHITDFTDHQRIHTAENPYDCEQAFSQQAIS
HPGEKPYQCNVCGKAFKRSTSFIEHHRHTGEKPYECNECEAFSRRSSLTQHERHTGEKPYECIDCGK
AFSQSSSLIQHERHTGEKPYECNECEGRAFRKKTNLHDHQRIHTGEKPYSCKECGKNFSRSSALTKHQRI
HTRNKL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_133458

ORF Size: 1908 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.

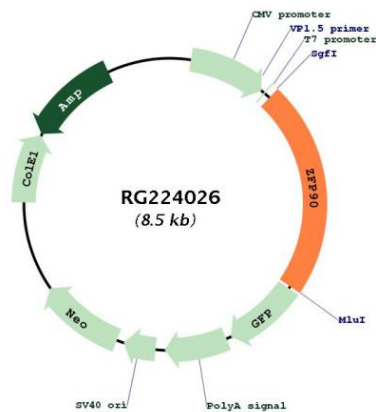
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_133458.2](#), [NP_597715.2](#)

RefSeq Size: 4655 bp
 RefSeq ORF: 1911 bp
 Locus ID: 146198
 UniProt ID: [Q8TF47](#)
 Cytogenetics: 16q22.1

Gene Summary: This gene encodes a member of the zinc finger protein family that modulates gene expression. The encoded protein derepresses the transcription of certain fetal cardiac genes and may contribute to the genetic reprogramming that occurs during the development of heart failure. Genome wide association studies have identified this gene among ulcerative colitis risk loci. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Mar 2015]

Product images:



Circular map for RG224026