

Product datasheet for **RG211003**

ZSCAN4 (NM_152677) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZSCAN4 (NM_152677) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZSCAN4
Synonyms:	ZNF494
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211003 representing NM_152677 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTTAGATCTAAGAACCATATTTTCAGTGTGAACCATCCGAGAATAATCTTGGATCAGAAAATTCAG
CGTTTCAACAAAGCCAAGGACCTGCTGTTTCAGAGAGAAGAAGGGATTTCTGAGTTCTCAAGAATGGTGCT
CAATTCATTTCAAGACAGCAATAATTCATATGCAAGGCAGGAATTGCAAAGACTTTATAGGATCTTTCAC
TCATGGCTGCAACCAGAAAAGCACAGCAAGGATGAAATATTTCTCTATTAGTCTGGAGCAGTTTATGA
TTGGTGGCCACTGCAATGACAAAGCCAGTGTGAAAGAGAAATGGAAATCAAGTGGCAAAAACCTTGGAGAG
ATTCATAGAAGACCTGACTGATGACAGCATAAAATCCACCTGCCTTAGTCCACGTCCACATGCAGGGACAG
GAAGCTCTCTTTCTGAGGATATGCCCTTAAGAGATGTCATTGTTTCATCTCACAAAAAAGTGAATGCC
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AGGATATGAAGATGAACAAGATGGCTGGAACAGTTCTTCGAAAACACTCGAGTAAATGAAAATATTACT
AATCAAGGCAATCAAATAGTTTCCCTAATCATCATCCAGGAAGAGAACGGTCTTAGGCCTGAAGAGGGAG
GTGTTTCTTCTGACAACCCATACAACCTAAAAAGAGCAGAGCTAGTCACTGCTAGATCTCAGGAAGGGTC
CATAAATGGAATCACTTTCCAAGGTGCCCTATGGTGTGGGAGCAGGGTGTATCTCTCAACCAGAGCAG
TCCTCCCTGAGTCTGCCCTTACCCACCAGAGCAATGAGGGAAATCCACATGTGAGGTACATCAGAAAAG
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CAGATATCAGACCTACGGGTGCATCAGATAATTCACACAGGAAAGAAGCCTTTCACATGCAGCATGTGTA
AAAAGTCTTCAGCCACAAAACCAACCTGCGGTCTCATGAGAGAATCCACACAGGAGAAAAGCCTTATAC
ATGTCCCTTTTGAAGACAAGCTACCGCCAGTCATCCACATACCACCGCCATATGAGGACTCATGAGAAA
ATTACCCTGCCAAGTGTTCCTCCACACCAGAAGCTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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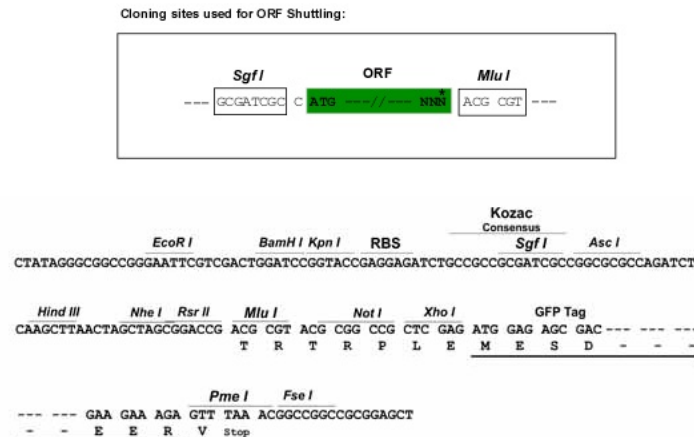
Protein Sequence: >RG211003 representing NM_152677
 Red=Cloning site Green=Tags(s)

MALDLRTIFQCEPSENNLGSNSAFQSQGPAVQREEGISEFSRMVLNSFQDSNNSYARQELQRLYRIFH
 SWLQPEKHSKDEIISLLVLEQFMIGGHCNDKASVKEKWKSSGNLERFIEDLTDD SINPPALVHVHMGGQ
 EALFSEDMPLRDVIVHLTKQVNAQTTREANMGTPSQTSDTSLETGQGYEDEQDGNSSSKTTRVNENIT
 NQGNQIVSLIIIQEENGPRPEEGVSSDNPYNSKRAELVTARSQEGSINGITFQGVPMVMGAGCISQPEQ
 SSPESALTHQSNEGNSTCEVHQKSHGVQKSYKCEECPKVFKYLCHLLAHQRRHRNERPFVCPCECKGFF
 QISDLRVHQIHTGKKPFTCSMCKKSFSHKTNLSHERIHTGEKPYTCPFCKTSYRQSSTYHRHMRTHEK
 ITLPSVPSTPEAS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152677

ORF Size: 1299 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.

RefSeq: [NM_152677.2](#), [NP_689890.1](#)

RefSeq Size: 2230 bp

RefSeq ORF: 1302 bp

Locus ID: 201516

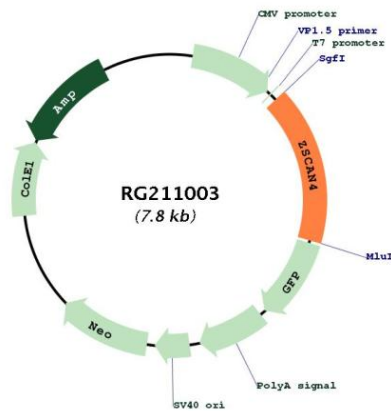
UniProt ID: [Q8NAM6](#)

Cytogenetics: 19q13.43

Protein Families: Transcription Factors

Gene Summary: The ZSCAN4 gene encodes a protein involved in telomere maintenance and with a key role in the critical feature of mouse embryonic stem (ES) cells, namely, defying cellular senescence and maintaining normal karyotype for many cell divisions in culture (Zalzman et al., 2010 [PubMed 20336070]).[supplied by OMIM, May 2010]

Product images:



Circular map for RG211003