

Product datasheet for **MG221370**

Zscan4f (NM_001110316) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zscan4f (NM_001110316) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zscan4f
Synonyms:	C330039H09Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221370 representing NM_001110316
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCTTCACAGCAGGCACCAGCAAAAGACCTTCAGACCAACAATTTAGAGTTTACTCCAAGTATAGTT
 CTGGTGTGCAGTGGGCAGAAAGACATCTCTAACTACCAAGTGCTCAGCTAACTTTCCCAAGTAACAA
 TGGCTGTGGGCAACTCAGGAGCTGCAAGTCTCTGGAAGATGTTCAACTCCTGGTTGCAGCCAGAAAAG
 CAGACTAAGGAGCAGATGATTTCTCAACTGGTCTTGGAGCAGTTTCTCCTCACTGGGCACTGCAAGGACA
 AGTATGCTTTGACAGAGAAGTGGAAAGCCAGTGGTAGCGATATGAGGAGATTCATGGAGAGTCTGACTGA
 TGAGTGCTTGAAGCCTCCTGTCATGGTCCATGTTTCAATGCAAGGACAAGAAGCCCTCTTTCTGAAAAC
 ATGCCATTAAGAAGTCATCAAGCTTTTGAACAACAGCAATCTGCAACAAGGCCAACACCAGATAATG
 AGCAGATGCCAGTAGACACCACACAAGATAGATTATTGGCCACAGGACAAGAAAACAGTGAAAATGAATG
 CAACAACCTTTGTAATGCTACTGAAGCAAATGTTGGTGAAGCTGTAGTGAAATGAAATGGACTCCCTT
 CTTATTATCCAGAAAGAAGCAGCACCTGAGCATGAAGAGGGGAATGTTGTTTGTCAATTCCTCATGGTG
 CCAGAAGAGCAAGTCAAGGCACCCCAAGTCATCATGTAGACTTCCCGAGTGCTCCGACTACTGCCGATGT
 CCCCATGGAGGAACAACCAAGGATTTATCCAGAGAAAACATCTCTGAGGACAAGAACAATTGCTATAAC
 ACTTCCAGAAATGCAGCTACTCAAGTATATAGTGGTGATAATATCCAGGAACAAGTCAGACTCCCTTT
 TCATTAACAAGAGAATATATCATCTGAGCCTGAGGTGGGAGATATTCCTTATGGAGTTCCTCAGGATTC
 TACAAGAGCAAGTCAAGGAACATCTACATGCCTGCAAGAGTCACTTGGGAATGTTTTCTGAAAACGAC
 CCAAGGGAGGTACCAGGTTGCAGTCTAGGCAAGAGCAGCCTATCTCTGATCCTGCTCTTGGTAAGA
 ATCATGAGGCAAACTTACCATGTGAAAGTCATCAAAAGAGATTCTGTAGAGATGCCAAACTATACAAGTG
 TGAAGAATGTTCTAGGATGTTCAAACATGCCAGGAGCCTTTCATCCCACCAGAGAACTCACCTGAATAAG
 AAGAGTGAATTGCTTTGTGTACCTGTGCAAAAATGTTCAAACGAGTCTCTGACCGCCGACCCATGAGA
 TCATACACATGCCAGAAAAGCCTTTCAAGTGCAGCACATGTGAAAAGTCCTTCAGCCACAAGACCAACCT
 GAAGTCTCATGAGATGATTCACACAGGAGAAATGCCTTATGTCTGTTCCCTATGTAGCCGTCGCTTTCGC
 CAATCATCCACTTACCATCGTCACCTGAGGAATTACCACAGATCTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

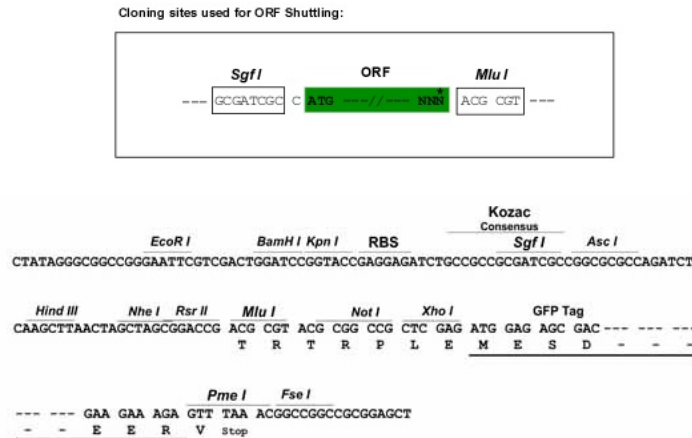
>MG221370 representing NM_001110316
 Red=Cloning site Green=Tags(s)

MASQQAPAKDLQTNLEFTPTDSSGVQWAEDISNSPSAQLNFSNNGCWATQELQSLWKMFNSWLQPEK
 QTKEQMISQLVLEQFLLTGHCKDKYALTEKWKASGSDMRRFMESLTDECLKPPVMVHVMQGEALFSEN
 MPLKEVIKLLKQQQSATRPTPDNEQMPVDTTQDRLLATGQENSENECNNSCNATEANVGESCSGNEMDSL
 LIIQKEQHPEHEEGNVVQFPHGARRASQGTSPSHHVDFFPSAPTTADVPMEEQPKDLSRENISEDKNNCYN
 TSRNAATQVYSGDNIIPRNKSDSLFINKRIYHPEPEVGDIPYGVQDSTRASQGTSTCLQESLGECFSEND
 PREVPGLQSRQEPISDPVLLGKNHEANLPCESHQKRFCRDAKLYKCEECSRMFKHARSLSSHQRTHLNK
 KSELLCVTCQKMFKRVSRRRTHETIIHMEKPFKSTCEKSFSHKTNLKSHEMIHTGEMPYVCSLCSRRFR
 QSSTYHRHLRNYHRSD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001110316

ORF Size: 1518 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_001110316.2](#), [NP_001103786.2](#)

RefSeq Size: 1829 bp

RefSeq ORF: 1521 bp

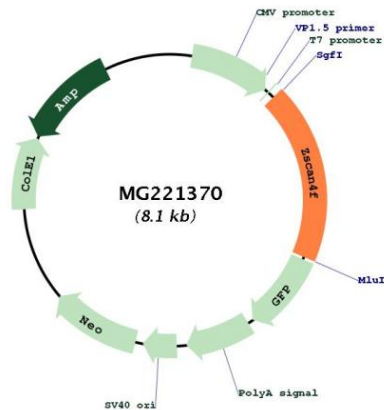
Locus ID: 665902

UniProt ID: Q3URS2

Cytogenetics: 7 A1

Gene Summary: Transcription factor required to regulate early development. Binds telomeres and plays a key role in genomic stability by regulating telomere elongation. Acts as an activator of spontaneous telomere sister chromatid exchange (T-SCE) and telomere elongation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG221370