

Product datasheet for **MG208145**

Zscan4c (NM_001013765) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zscan4c (NM_001013765) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zscan4c
Synonyms:	Gm397; XM_142517; Zscan4d
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208145 representing NM_001013765
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTTCACAGCAGGCACCAGCAAAGACCTTCAGACCAACAATTTAGAGTTTACTCCAAGTATAGTT
 CTGGTGTGCAGTGGGCAGAAAGACATCTCTAACTACCAAGTGCTCAGCTAAACTTTTCCCAAGTAACAA
 TGGCTGCTGGCAACTCAGGAGCTGCAAAGTCTCTGGAAGATGTTCAACTCCTGTTTGCAGCCAGAAAAG
 CAGACTAAGGAGCAGATGATTTCTCAACTGGTCTTGGAGCAGTTTCTCCTCACTGGGCACTGCAAGGACA
 AGTATGCTTTGACAGAGAAGTGGAAAGCCAGTGGTAGCGATATGAGGAGATTCATGGAGAGTCTGACTGA
 TGAGTGTGTAAGCCTCCTGTATGGTCCATGTTTCAATGCAAGGACAAGAAGCCCTCTTTTCTGAAAAC
 ATGCCATTAAGAAGTCATCAAGCTTTTGAACAACAGCAATCTGCAACAAGGCCAACACCAGATAATG
 AGCAGATGCCAGTAGACACCACACAAGATAGATTATTGGCCACAGGACAAGAAAACAGTAAAATGAATG
 CAACAACCTTTGTAATGCTACTGAAGCAAATGTTGGTAAAAGCTGTAGTGAAAATGAAATGGACTCCCTT
 CTATTATCCAGAAAAGACAGCACCCCTGAGCATGAAGAGGGGAATGTTGTTTGTCAATTCCTCATGGTG
 CCAGAAGAGCAAGTCAAGGCACCCCCAGTCATCATGTAGACTTCCCGAGTGCTCCGACTACTGCCGATG
 CCCCATGGAGGAACAACCAAGGATTTATCCAGAGAAAACATCTCTGAGGACAAGAACAATTGCTATAAC
 ACTTCCAGAAATGCAGCTACTCAAGTATATAGTGGTGATAATATCCAGGAACAAGTCAGACTCCCTTT
 TCATTAACAAGAGAATATATCATCTGAGCCTGAGGTGGGAGATATTCCTTATGGAGTTCCTCAGGATTC
 TACAAGAGCAAGTCAAGGAACATCTACATGCCTGCAAGAGTCACTTGGGGAATGTTTTCTGAAAACGAC
 CCAAGGGAGGTACCAGGGTTGCAGTCTAGGCAAGAGCAGCCTATCTCTGATCCTGTCTTCTTGGTAAGA
 ATCATGAGGCAAACCTTACCATGTGAAAGTCATCAAAGAGATTCTGTAGAGATGCCAAACTATACAAGT
 TGAAGAATGTTCTAGGATGTTCAAACATGCCAGGAGCCTTTCATCCCACCAGAGAACTCACTGAATAAG
 AAGAGTGAATTGCTTTGTGTACCTGTGCAAAAATGTTCAAACGAGTCTCTGACCGCCGACCCATGAGA
 TCATACACATGCCAGAAAAGCCTTTCAAGTGCAGCACATGTGAAAAGTCCTTCAGCCACAAGACCAACCT
 GAAGTCTCATGAGATGATTCACACAGGAGAAAATGCCTTATGTCTGTTCCCTATGTAGCCGTGCTTTTCG
 CAATCATCCACTTACCATCGTCACCTGAGGAATTACCACAGATCTGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208145 representing NM_001013765
 Red=Cloning site Green=Tags(s)

MASQQAPAKDLQTNNLEFPTDSSGVQWAEDISNSPSAQLNFSNNGCWATQELQSLWKMFNWLQPEK
 QTKEQMISQLVLEQFLLTGHCKDKYALTEKWKASGSDMRRFMESLTDECLKPPVMVHVSMTGQEQEALFSEN
 MPLKEVIKLLKQQSATRPTPDNEQMPVDTTQDRLLATGQENSENECNNSCNATEANVGESCSGNEMDSL
 LIIQKEQHPEHEEGNVVCFPHGARRASQGTSPHHVDFPSAPTTADVPMEEQPKDLSRENI SEDKNNCYN
 TSRNAATQVYSGDNI PRNKSDSLFINKRIYHPEPEVGDIPYGVQDSTRASQGTSTCLQESLGECSFSEND
 PREVPGLQSRQEQPISDPVLLGKNHEANLPCESHQKRFCDAKLYKCECSRMFKHARSLSSHQRTHLNK
 KSELLCVTCQKMFKRVSRRRTHETI IHMPEKPFKSTCEKSF SHKTNLKSHEMIHTGEMPYVCSLCSRRFR
 QSSTYHRHLRNYHRSD

TRTRPLE – GFP Tag – V

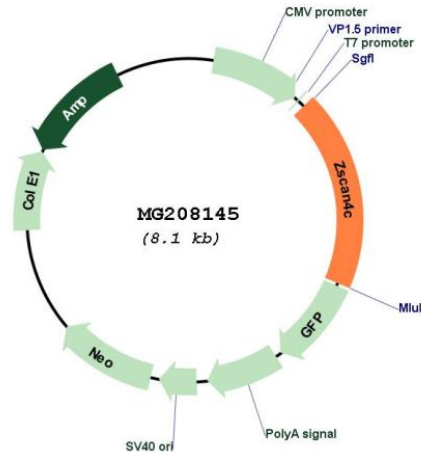
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001013765

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.

RefSeq: [NM_001013765.2](#), [NP_001013787.1](#)

RefSeq Size: 2276 bp

RefSeq ORF: 1521 bp

Locus ID: 245109

UniProt ID: [Q80VI6](#)

Cytogenetics: 7 A1

Gene Summary: Embryonic stem (ES) cell-specific transcription factor required to regulate ES cell pluripotency. Binds telomeres and plays a key role in genomic stability in ES cells by regulating telomere elongation. Acts as an activator of spontaneous telomere sister chromatid exchange (T-SCE) and telomere elongation in undifferentiated ES cells.[UniProtKB/Swiss-Prot Function]