

Product datasheet for **MG222789**

Zscan4d (NM_001100186) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zscan4d (NM_001100186) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zscan4d
Synonyms:	EG545913
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG222789 representing NM_001100186
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTTCACAGCAGGCACCAGCAAAGACCTTCAGACCAACAATTTAGAGTTTACTCCATCTCATAGTT
 CTGGTGTGCACTGGGTAGAAGACATCTCTAACTACCAAGTGCTCAGCTAACTTTTCTCCAAGTAACAA
 TGGCTGCTGGCAACTCAGGAGCTGCAAAGTCTCTGGAAGATGTTCAACTCCTGGTTGCAGCCAGAAAAG
 CAGACTAAGGAGCAGATGATTTCTCAACTGGTCTTGGAGCAGTTTCTCCTATTGGGCACTGCAAGGACA
 AGTATGCTTTGACAGAGAAGTGGAAAGCCAGTGGTAGCGATATGAGGAGATTCATGGAGAGTCTGACTGA
 TGAGTGTGTAAGCCTCCTGTATGGTCCATGTTTCAATGCAAGGACAAGAAGCTCTTTTTCTGAAAAC
 ATGCCATTAAGAAGTCATCAAGCTTTTGAACAACAGCAATCTGCAACAAGGCCAACACCAGATAATG
 AGCAGATGCCAGTAGACACCACACAAGATAGATTATTGGCCACAGGACAAGAAAACAGTAAAATGAATG
 CAACAACCTTTGTAATGCTACTGAAGCAAATGTTGGTGAAGCTGTAGTGAAATGAAATGGACTCCCTT
 CTATTATCCAGAAAACAAGTACCCTGAGCATGAAGAGGGGAATGTTGTTTTTCAATCCCTCTTGATG
 CCAGAAGAGCAAGTCAAGGCAACTCCAGTCATCATGTAGACTTCCGGAGTGTCCGACTCCTGCGGATGT
 CCCCATGGAGGAACAACCAAGGATTTATCCAGAGAAAACATCTCTGAGGACAAGAAACAATTGCTATAAC
 ACTTCCAGGAATGCAGCTACTCAAGTATATAGAAGTGATAATATCCAGGAAAAAGACAGACTCCCTTT
 CCATTAACAAGAGAATATATCATTCTGAGCCTGAGGAGGGAGATATTCCTTATGGAGTTCCTCAGGATTC
 TACAAGAGCAAGTCAAGGAACATCTACATGCTTGAAGAGTCACTTGGGGATGTTTTCTGAAAAAGAC
 CCTAGGGAGCTACCAGGGTTGGAGTCTAGGCAAGAGGAGCCTATCTCTGATCCTGTCTTTCTTGGTAAGG
 ATCATGAGGCAAACCTTACCATGTGAAAGTCATCAAAGAGATTCCGTAGAGATGCCAAACTATTCGAATG
 TGAAGAATGTTCTAGGATGTTCAAACATGCCAGGAGCCTTTCGTCCCACCAGAGAACTCACCTGAATAAG
 AAGAGTGAATTGCTTTGTGTACCTGTGAGAAAATGTTCAAACGAGTCTCTGACCGCCGAACCCATGAGA
 TCATACACATGCCAGAAAAGCCTTTCAAGTGCAGCACATGTGAAAAGTCCTTCAGCCACAAGACCAACCT
 GAAGTCTCATGAGATGATTCACACAGGAGAAAATGCCTTATGTCTGTTCCCTATGTAGCCGTGCTTTTCG
 CAATCATCCACTTACCATCGTCACCTGAGGAATTACCACAGATCTGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG222789 representing NM_001100186
 Red=Cloning site Green=Tags(s)

MASQQAPAKDLQTNNLEFTPSSSGVQWVEDISNSPSAQLNFSNNGCWATQELQSLWKMFNWLQPEK
 QTKEQMISQLVLEQFLLIGHCKDKYALTEKWKASGSDMRRFMESLTDECLKPPVMVHVMQGEALFSEN
 MPLKEVIKLLKQQSATRPTPDNEQMPVDTTQDRLLATGQENSENECNNSCNATEANVGESCSGNEMDSL
 LIIQKEQYPEHEEGNVVFQPLDARRASQGNSSHVDFRSAPTPADVPMEEQPKDLSRENI SEDKNNCYN
 TSRNAATQVYRSDNIPRKKTDLSINKRIYHSEPEEGDIPYGVQDSTRASQGTSTCLQESLGEFCSEKD
 PRELPGLSRQEEPISDPVFLGKDHEANLPCESHQKRFRRDAKLFKCECSRMFKHARSLSSHQRTHLNK
 KSELLCVTCQKMFKRVSRRRTHI IHMPEKPFKSTCEKSF SHKTNLKSHEMIHTGEMPYVCSLCSRRFR
 QSSTYHRHLRNYHRSD

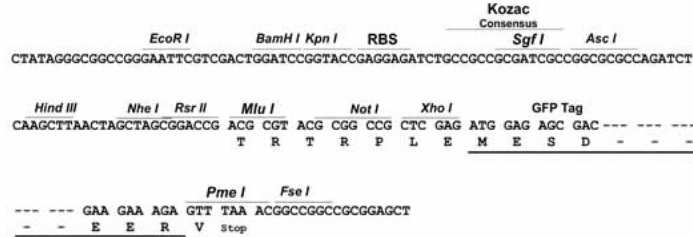
TRTRPLE – GFP Tag – V

Restriction Sites:

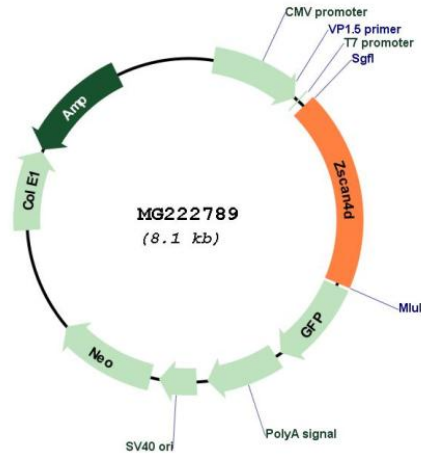
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001100186

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_001100186.1](#), [NP_001093656.1](#)

RefSeq Size: 1992 bp

RefSeq ORF: 1521 bp

Locus ID: 545913

UniProt ID: [A7KBS4](#)

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]