

## Product datasheet for **MR225004**

### Tsc22d3 (NM\_001077364) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tsc22d3 (NM\_001077364) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tsc22d3  
**Synonyms:** DIP; Dsip1; Gilz; Tilz3; TSC-22R  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR225004 representing NM\_001077364  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAGCCCAAGACCGAGTCCGCTCACCTGTTGGCCTCGACTGCTGCAACTGCTGCCTCGACCTGG  
CCAACCGTGGAGCTCCAGAAGGAGAAGAGCGGGGAGAGCCCGGCAGCCCTTCGTGAGCAACTTTCG  
GCAGCTGCAGGAGAAGCTCGTCTCGAGAACCTCAACTGACAAGCTGAACAACATAATGCGCCAGGAT  
TCCATGGAGCCCGTGGTGGCGACCCCTGCTACCTGATCAATGAGGCATCTGCAACCGCAACATAGACC  
AGACCATGCTCTCCATTCTACTTTCTTCCACAGTGCCTCCGGAGCCAGTGTGGTGGCCCTAGACAACAA  
GATTGAGCAGGCCATGGACCTCGTGAAGAACCACCTGATGTACGCTGTGAGAGAGGAGGTGGAGGTCTTA  
AAGGAGCAGATTGCTGAGCTGCTTGAGAAGAACTCCCAGCTGGAGCGCGAGAACCCTCTGAAGACGC  
TGGCAAGCCCGAGCAACTGAAAAGTTCCAGTCCCGGCTGAGCCCTGAAGAGCCAGCACCTGAAGCCCC  
AGAAACCCCGAAACCCCGAAGCCCTGGTGGTCTGCGGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR225004 representing NM\_001077364  
Red=Cloning site Green=Tags(s)

MAQPKTECRSPVGLDCCNCLDLANRCELQKEKSGESPGSPFVSNFRQLQEKLVFENLNTDKLNNIMRQD  
SMEPVVRDPCYL INEGICNRNIDQTML SILLFFHSASGASVVALDNKIEQAMD L VKNHLMYAVREEVEVL  
KEQIRELLEKNSQLERENTLLKTLASPEQLEKFSRLSPEEPAPEAPETPETPEAPGSSAV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**



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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001077364

**ORF Size:** 603 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001077364.1](#), [NP\\_001070832.1](#)

**RefSeq Size:** 2149 bp

**RefSeq ORF:** 606 bp

**Locus ID:** 14605

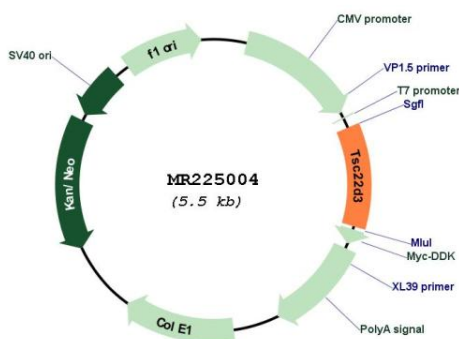
**UniProt ID:** [Q9Z2S7](#)

**Cytogenetics:** X F1

**MW:** 23 kDa

**Gene Summary:** Protects T-cells from IL2 deprivation-induced apoptosis through the inhibition of FOXO3A transcriptional activity that leads to the down-regulation of the pro-apoptotic factor BCL2L11. In macrophages, plays a role in the anti-inflammatory and immunosuppressive effects of glucocorticoids and IL10. In T-cells, inhibits anti-CD3-induced NFKB1 nuclear translocation. In vitro, suppresses AP1 and NFKB1 DNA-binding activities (By similarity). Isoform 1 and isoform 4 inhibit myogenic differentiation and mediate anti-myogenic effects of glucocorticoids by binding and regulating MYOD1 and HDAC1 transcriptional activity resulting in reduced expression of MYOG.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR225004