

## Product datasheet for **MR227205**

### **Foxp3 (NM\_054039) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Foxp3 (NM_054039) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Foxp3
Synonyms:	JM2; scu; scurfin; sf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR227205 representing NM\_054039  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCAACCCCTAGGCCAGCCAAGCCTATGGCTCCTTCTGGCCCTTGCCCATCCCCAGGAGTCTTGC  
 CAAGCTGGAAGACTGCACCCAAGGGCTCAGAACTTCTAGGGACCAAGGGCTCTGGGGACCCCTCCAAGG  
 TCGGGACCTGCGAAGTGGGGCCACACCTCTTCTTCTTGAACCCCTGCCACCATCCCAGCTGCAGCTG  
 CCTACAGTCCCCCTAGTCATGGTGGCACCGTCTGGGGCCGACTAGGTCCCTCACCCACCTACAGGCC  
 TTCTCCAGGACAGACCACACTTCATGCATCAGCTCTCCACTGTGGATGCCCATGCCAGACCCCTGTGCT  
 CCAAGTGCCTCCACTGGACAACCCAGCCATGATCAGCCTCCACCACCTTCTGCTGCCACTGGGGTCTTC  
 TCCCTCAAGGCCCGCCTGGCTGCCACCTGGGATCAATGTGGCCAGTCTGGAATGGGTGTCAGGGAGC  
 CAGCTCTACTCTGCACCTTCCCACGCTCGGTACACCCAGGAAAGACAGCAACCTTTTGGCTGCACCCCA  
 AGGATCCTACCCACTGCTGGCAAATGGAGTCTGCAAGTGGCTGGTTGTGAGAAGTCTTCGAGGAGCCA  
 GAAGAGTTTCTCAAGCACTGCCAAGCAGATCATCTCCTGGATGAGAAAGGCAAGGCCAGTGCCTCCTCC  
 AGAGAGAAGTGGTGCAGTCTCTGGAGCAGCAGCTGGAGCTGGAAGGAGAGAGCTGGGAGCTATGCAGGC  
 CCACCTGGCTGGGAAGATGGCGCTGGCCAAGGCTCCATCTGTGGCCTCAATGGACAAGAGCTTGTCTGC  
 ATCGTAGCCACCAGTACTCAGGGCAGTGTGCTCCCGCCTGGTCTGCTCCTCGGGAGGCTCCAGACGGCG  
 GCCTGTTTGCAGTGGGAGGCACCTCTGGGAAGCCATGGCAATAGTTCCCTTCCCAGAGTCTTCCACAA  
 CATGGACTACTTCAAGTACCACAATATGCGACCCCTTTCACCTATGCCACCTTATCCGATGGGCCATC  
 CTGGAAGCCCCGGAGAGGCAGAGGACACTCAATGAAATCTACCATTGGTTTACTCGCATGTTGCGCTACT  
 TCAGAAACCCCGCCACCTGGAAGAATGCCATCCGCCACAACCTGAGCCTGCACAAGTCTTTGTGCG  
 AGTGGAGAGCGAGAAGGGAGCAGTGTGGACCGTAGATGAATTTGAGTTTCGCAAGAAGAGGAGCCAACGC  
 CCCAACAAAGTGCTCCAATCCCTGCCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR227205 representing NM\_054039  
 Red=Cloning site Green=Tags(s)

MPNPRPAKPMAPSLALGSPGVLPSWKTAPKGSSELLGTRGSGGPFQGRDLRSGAHTSSSLNPLPPSQLQL  
 PTVPLVMVAPSGARLGSPHLQALLQDRPHFMHQLSTVDAHAQTPVLQVRPLDNPAMISLPPPSAATGVF  
 SLKARPLPPGINVASLEWVSREPALLCTFPRSGTPRKDSNLLAAPQGSYPLLANGVCKWPGCEKVFEEP  
 EEFLKHCQADHLLDEKGAQCLLQREVVSLEQQLELEKEKLGAMQAHLGKMLAKAPSVASMDKSSCC  
 IVATSTQGSVLPAWSAPREAPDGLFAVRRHLWGSNGSSFFEFFHNMDYFKYHNMRPPTYATLIRWAI  
 LEAPERQRTLNEIYHWFTRMFAYFRNHPATWKNAIRHNLSLHKCFVRVESEKGAVWTVDEFERKKRSQR  
 PNKCSNPCP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**ACCN:** NM\_054039

**ORF Size:** 1287 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\\_054039.2](#)

RefSeq Size: 3739 bp

RefSeq ORF: 1290 bp

Locus ID: 20371

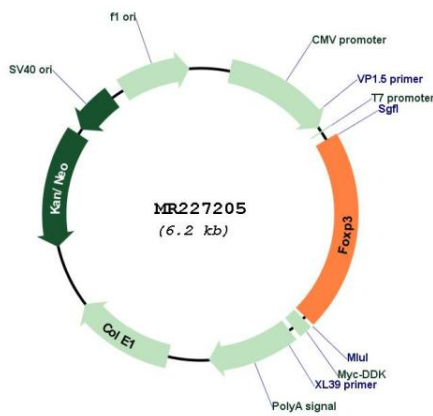
UniProt ID: [Q99JB6](#)

Cytogenetics: X 3.41 cM

MW: 47.8 kDa

**Gene Summary:** The protein encoded by this gene is a member of the forkhead/winged-helix family of transcriptional regulators. Defects in this gene result in the scurfy phenotype (sf). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

**Product images:**



Circular map for MR227205