

Product datasheet for **MC220877**

Foxp1 (NM_053202) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Foxp1 (NM_053202) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Foxp1 |
| Synonyms: | 3110052D19Rik; 4932443N09Rik; AI461938; AW494214 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC220877 representing NM_053202
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGCAAGAATCTGGGTCTGAGACAAAAAGTAAACGGATCAGCCATCCAGAACGGGTCCAGCGGTGGCA
 ACCACTTACTAGAGTGCGGGCACTTCGTGACACTCGGTCCAACGAGAGGCACAGCGGTGGACCTGGG
 GGCAGCCGACCTTGCCACGTCCAGCAGCAGCAACAGCAGGCCCTGCAGGTGGCAAGGCAGCTCCTCCTT
 CAGCAGCAGCAACAGCAGCAGCAACAGCAGCAGCAGCAGCAACAGCAGCAACAGCAGCAGC
 AACACAGCAGCAGCAGCAACAGCAGCAGCAGCAGCAAGTTAGTGGATTAAGTCTCCCAAGAGGAA
 TGACAAGCAACCAGCTCTTCAGTTCCCGTGTGAGTGGCTATGATGACACCTCAGTTATCACTCCTCAA
 CAAATGCAGCAGATCCTCCAGCAGAGGTGCTGAGCCCCAGCAGCTCCAGTTCTCCTCCAGCAGCAGC
 AGGCCCTCATGCTTCAACAGCAGCTTCAAGAATTTTATAAAAAACAACAGGAACAGTTGCAGCTTCACT
 TCTCCAACAGCAACATGCTGGAAAACAGCCGAAAGAGCAGCAGGTGGCTACCCAGCAGTTGGCTTCCAG
 CAGCAGCTTCTCCAGATGCAGCAGCTGCAGCAGCAGCACCTCTTGTCTCTCCAGCGCCAAGGCCCTCTAA
 CAATTCAGCCGGGGCAGCCTGCCCTTCCCTCCAACCCCTCGCTCAAGGCATGATTCCAACGGAAGTGA
 GCAGCTCTGAAAAGAAGTGACAAGTGCCACACTGCAGAGGAAACCACAAGCAGCAACCACAGCAGCCTA
 GACCTGACCAGCAGATGTGTCTCGTCTCGGCACCTTCCAAGTCTCCCTAATCATGAACCCGCATGCTT
 CTACCAATGGACAGCTCTCGGTCCACACTCCCAAAAGGAAAGCTTGTCCACAGGAGCAGCCCCACAG
 CCACCTCTCTATGGACATGGCGTATGCAAGTGGCCAGGCTGTGAGGCGGTTTGTGACGACTTCCAGCC
 TTTCTAAAACATCTCAACAGTGAAGTACAGCTTGCAAAAGACAAGAGCGCTGCAAGCCATGATGACCCACT
 GCATGTGAAGTCTACAGAACCCAAAGTCCCTCAGCCCTGAATCTGGTATCAAGTGTACCCCTCTCC
 AAGTCTGCCTCAGAGGCTTCTCCACAGAGCTTACCTCATCTCCAACAACCCCCACCGCCCCCTGACTC
 CTGTCACCCAAGGCCCTCCGTATCACCACCACAGCATGCACACGGTGGGACCTATCCGAGGCGGTA
 CTCAGACAAATACAACGTGCCATTTCTCAGCAGATTTGCGCAGAACCAAGAATTTTATAAAGAACGCG
 GAAGTTAGACCACATTTACATATGCATCTTAAATCAGGCAGGCCATTCTCGAATCTCCAGAAAAGCAGC
 TAACACTAAACGAAATCTATAACTGGTTCACACGAATGTTTGCTTACTCCGACGCAATGCAGCCACGTG
 GAAGAATGCAGTGCATATAATCTTAGTCTCCACAAGTGTGTTGCGAGTAGAGAACGTTAAAGGGGCA
 GTATGGACAGTGGATGAAGTAGAGTTCCAAAACGGAGGCCACAAAAGATCAGTGGTAACCTTCCCTTA
 TAAAAACATGCAGAGCAGCCACGCCTACTGCACACCTCTCAATGCAGCTTTACAGGCTTCCATGGCTGA
 GAATAGTATACCTCTGTACACTACCGCTTCCATGGGAAATCCCACTCTGGGCAGCCTGGCCAGTGCCATC
 CGGGAGGAGCTGAACGGGGCCATGGAGCACACCAACAGCAACGAGAGTGACAGCAGTCCAGGCAGATCCC
 CTATGCAAGCTGTGCACCCATACACGTCAAAGAAGAACCCTCGACCCCGAGGAAGCTGAAGGCCCTCT
 GTCCTTAGTGACAACAGCCAACACAGTCCAGATTTTGACCATGCAGAGATTACGAAGACGAACCAAGTA
 AATGAGGACATGGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_053202

Insert Size: 2118 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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| 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: | <ol style="list-style-type: none">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: | <u>NM_053202.2</u> , <u>NP_444432.1</u> |
| RefSeq Size: | 7177 bp |
| RefSeq ORF: | 2118 bp |
| Locus ID: | 108655 |
| UniProt ID: | <u>P58462</u> |
| Cytogenetics: | 6 D3 |

Gene Summary:

Transcriptional repressor. Can act with CTBP1 to synergistically repress transcription but CTPBP1 is not essential (PubMed:11358962, PubMed:14701752). Plays an important role in the specification and differentiation of lung epithelium. Acts cooperatively with FOXP4 to regulate lung secretory epithelial cell fate and regeneration by restricting the goblet cell lineage program; the function may involve regulation of AGR2 (PubMed:11358962, PubMed:22675208). Essential transcriptional regulator of B-cell development (PubMed:16819554). Involved in regulation of cardiac muscle cell proliferation (PubMed:20713518). Involved in the columnar organization of spinal motor neurons. Promotes the formation of the lateral motor neuron column (LMC) and the preganglionic motor column (PGC) and is required for respective appropriate motor axon projections. The segment-appropriate generation of spinal chord motor columns requires cooperation with other Hox proteins (PubMed:18667151, PubMed:18662545). Can regulate PITX3 promoter activity; may promote midbrain identity in embryonic stem cell-derived dopamine neurons by regulating PITX3 (PubMed:20175877). Negatively regulates the differentiation of T follicular helper cells T(FH)s (PubMed:24859450). Involved in maintenance of hair follicle stem cell quiescence; the function probably involves regulation of FGF18 (PubMed:23946441). Represses transcription of various pro-apoptotic genes and cooperates with NF-kappa B-signaling in promoting B-cell expansion by inhibition of caspase-dependent apoptosis. Binds to CSF1R promoter elements and is involved in regulation of monocyte differentiation and macrophage functions; repression of CSF1R in monocytes seems to involve NCOR2 as corepressor. Involved in endothelial cell proliferation, tube formation and migration indicative for a role in angiogenesis; the role in neovascularization seems to implicate suppression of SEMA5B. Can negatively regulate androgen receptor signaling (By similarity).

[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longest isoform (1). Isoforms 1 and 4 are identical in length but have distinct peptide sequences. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.