

Product datasheet for **MC218104**

Sox10 (BC018551) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sox10 (BC018551) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sox10
Synonyms:	Dom; gt; Sox21
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC018551
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGAGGAACAAGACCTATCAGAGGTGGAGCTGAGCCCTGTGGGCTCGGAGGAACCCCGCTGCCTGT
 CCCAGGCAGCGCGCGTCTGGACCCGACGCGCGCGGGTGGCTCGGGCTTGCAGCCAGCCCGGG
 GCCCGGTGAAGTGGCAAGGTCAAGAAGGAACAGCAGGACGCGGAGGCGGACGATGACAAGTTCGCCGTG
 TGCATCCGCGAGGCGGTCAAGCAGGTGCTCAGCGGCTACGACTGGACGCTGGTGCCATGCCCGTGCAGC
 TCAACGGTGCCAGCAAGAGCAAGCCGACGTCAAGAGGCCATGAACGCCTTCATGGTGTGGGCACAGGC
 GGCACGCAGAAAGCTAGCCGACCACTACCTCACCAATGCTGAGCTCAGCAAGACTAGGCAAG
 CTCTGGAGTTGCTGAACGAAAGTGACAAGCGCCCTTCATTGAGGAGGCTGAGCGGCTCCGGATGCAGC
 AAAAAAGGACCTCCGACTACAAGTACAACCTCGGCGCGGAAGAAGCGGAAGGCAGCCAGGGGGA
 GGCAGAATGCCAGGCGGGAAGCCGAGCAAGGAGGGGCTGCTGTATTACAGGCTCACTACAAGAGTGCC
 CACTGGACCACCGGCACCCAGAAGAAGGCTCCCCATGTCAGATGGGAACCCAGAGCACCCCTCAGGCC
 AGAGCCATGGCCCCCAACCCCTCCAACACCCCAAGACAGAGCTGCAGTCCGGCAAGGAGACCCCAA
 AAGGGATGGGCGCTCCTTGGGGGAGGGCGGAAGCCCCACATCGACTTCGGCAACGTGGACATCGGGGAG
 ATCAGCCACGAGGTAATGTCCAACATGGAAACCTTTGATGTGACTGAGCTGGACCAATACCTGCCACCCA
 ACGGGCACCCAGGCCATGTGGGTAGCTACTCGGCAGCTGGCTATGGGCTGGGCAGTGCCTGGCTGTGGC
 CAGTGGACTCTGCCTGGATCTCCAAGCCACAGGTGTGGCTCTGCCACGGTCTCGCCCCCTGGTGTG
 GATGCCAAAGCCAGGTGAAGACAGAGACCACAGGCCCCAGGGACCCCACTACACCCAGCAGCCGT
 CCACTTCCAGATCGCCTACACCTCCCTCAGTCTGCCCACTACGGCTCCGCCTTCCCTCCATCTCAGC
 ACCCCAGTTTGACTATTCTGACCATCAGCCCTCAGGACCTATTATGGCCATGCAGGCCAGGCCTCTGGC
 CTCTATTACAGCTTTTCTTACATGGGGCCCTCCAGCGGCCCTCTACACTGCCATCTCTGACCCAGCC
 CCTCGGGGCCCAATCCACAGTCCACACACTGGGAGCAGCCAGTATATACGACTCTATCCCGACCTTA
 G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: BC018551

Insert Size: 1401 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).

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: [BC018551](#), [AAH18551](#)

RefSeq Size: 2554 bp

RefSeq ORF: 1400 bp

Locus ID: 20665

Cytogenetics: 15 37.7 cM

Gene Summary: Transcription factor that plays a central role in developing and mature glia (PubMed:24204311, PubMed:27532821). Specifically activates expression of myelin genes, during oligodendrocyte (OL) maturation, such as DUSP15 and MYRF, thereby playing a central role in oligodendrocyte maturation and CNS myelination (PubMed:24204311, PubMed:27532821). Once induced, MYRF cooperates with SOX10 to implement the myelination program (PubMed:24204311). Transcriptional activator of MITF, acting synergistically with PAX3 (By similarity).[UniProtKB/Swiss-Prot Function]