

## Product datasheet for **MC218240**

### Sox10 (BC023356) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sox10 (BC023356) 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:** >BC023356  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGAGGAACAAGACCTATCAGAGGTGGAGCTGAGCCCTGTGGGCTCGGAGGAACCCCGCTGCCTGT  
 CCCAGGCAGCGCCGTCGCTGGGACCCGACGCGCGCGGGTGGCTCGGGCTTGCAGCCAGCCCGGG  
 GCCCGGTGAAGTGGCAAGGTCAAGAAGGAACAGCAGGACGCGAGGCGGACGATGACAAGTTCCTCGTG  
 TGCATCCGCGAGGCGGTCAAGCAGGTGCTCAGCGGCTACGACTGGACGCTGGTGGCCATGCCCGTGC  
 TCAACGGTGCCAGCAAGAGCAAGCCGACGTCAAGAGGCCATGAACGCCTTCATGGTGTGGGCACAGGC  
 GGCACGCAGAAAGCTAGCCGACCACTACCTCCACAATGCTGAGCTCAGCAAGACTAGGCAAG  
 CTCTGGAGGTTGCTGAACGAAAGTGACAAGCGCCCTTCATTGAGGAGGCTGAGCGGCTCCGGATGCAGC  
 AAAAAAGGACCATCCGACTACAAGTACCAACCTCGGCGCGGAAGAAGCGGAAGGCAGCCAGGGGGA  
 GGCAGAATGCCAGGCGGGAAGCCGAGCAAGGAGGGGCTGCTGTATTACAGGCTCACTACAAGAGTGCC  
 CACTGGACCACCGGCACCCAGAAGAAGGCTCCCCATGTCAGATGGGAACCCAGAGCACCCCTCAGGCC  
 AGAGCCATGGCCCCCAACCCCTCCAACACCCCAAGACAGAGCTGCAGTCCGGCAAGGAGACCCCAA  
 AAGGGATGGGCGCTCCTTGGGGGAGGGCGGAAGCCCCACATCGACTTCGGCAACGTGGACATCGGGGAG  
 ATCAGCCACGAGGTAATGTCCAACATGGAAACCTTTGATGTGACTGAGCTGGACCAATACCTGCCACCCA  
 ACGGGCACCCAGGCCATGTGGGTAGCTACTCGGCAGCTGGCTATGGGCTGGGAGTGCCTGGCTGTGGC  
 CAGTGGACTCTGCCTGGATCTCCAAGCCACAGGTGTGGCTCTGCCACGGTCTCGCCCCCTGGTGTG  
 GATGCCAAAGCCAGGTGAAGACAGAGACCACAGGCCCCAGGGACCCCACTACACCCAGCAGCCGT  
 CCACTCCAGATCGCCTACACCTCCCTCAGTCTGCCCCACTACGGCTCCGCCTTCCCCTCCATCTCAGC  
 ACCCCAGTTTGACTATTCTGACCATCAGCCCTCAGGACCCCTATTATGGCCATGCAGGCCAGGCCTCTGGC  
 CTCTATTACAGCCTTTTCTTACATGGGGCCCTCCAGCGGCCCTCTACACTGCCATCTCTGACCCAGCC  
 CCTCGGGGCCCAATCCACAGTCCACACACTGGGAGCAGCCAGTATATACGACTCTATCCCGACCTTA  
 G

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** BC023356

**Insert Size:** 1401 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](#)

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC023356</a></u> , <u><a href="#">AAH23356</a></u>
<b>RefSeq Size:</b>	2600 bp
<b>RefSeq ORF:</b>	1400 bp
<b>Locus ID:</b>	20665
<b>Cytogenetics:</b>	15 37.7 cM
<b>Gene Summary:</b>	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]