

Product datasheet for **MG207452**

Sox10 (BC023356) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sox10 (BC023356) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sox10
Synonyms:	Dom; gt; Sox21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG207452 representing BC023356
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGAGGAACAAGACCTATCAGAGGTGGAGCTGAGCCCTGTGGGCTCGGAGGAACCCCGCTGCCTGT
 CCCAGGCAGCGCGCCGTCGCTGGGACCCGACGCGCGCGGGTGGCTCGGGCTTGCAGCCAGCCCGGG
 GCCCGGTGAAGTGGCAAGGTCAAGAAGGAACAGCAGGACGCGGAGGCGGACGATGACAAGTCCCGCTG
 TGCATCCGCGAGGCGGTGAGCCAGGTGCTCAGCGGCTACGACTGGACGCTGGTGGCCATGCCCGTGC
 TCAACGGTGCCAGCAAGAGCAAGCCGACGTCAAGAGGCCATGAACGCCTTCATGGTGTGGGCACAGGC
 GGCACGCAGAAAGCTAGCCGACCAGTACCCTCACCTCCACAATGCTGAGCTCAGCAAGACACTAGGCAAG
 CTCTGGAGTTGCTGAACGAAAGTGACAAGCGCCCTTCATTGAGGAGGCTGAGCGGCTCCGGATGCAGC
 AAAAAAGGACCTCCGACTACAAGTACAACCTCGGCGCGGAAGAACGGGAAGGCAGCCAGGGGGG
 GGCAGAATGCCAGGCGGGAAGCCGAGCAAGGAGGGGCTGCTGCTATTCAGGCTCACTACAAGAGTGCC
 CACTGGACCACCGGCACCCAGAAGAAGGCTCCCCATGTCAGATGGGAACCCAGAGCACCCCTCAGGCC
 AGAGCCATGGCCCCCAACCCCTCAACACCCCAAGACAGAGCTGCAGTCCGGCAAGGAGACCCCAA
 AAGGGATGGGCGCTCCTTGGGGGAGGGCGGAAGCCACATCGACTTCGGCAACGTGGACATCGGGGAG
 ATCAGCCACGAGGTAATGTCCAACATGGAACCTTTGATGTGACTGAGCTGGACCAATACCTGCCACCCA
 ACGGGCACCCAGGCCATGTGGGTAGCTACTCGGCAGCTGGCTATGGGCTGGGAGTGCCTGGCTGTGGC
 CAGTGGACACTCTGCCTGGATCTCCAAGCCACAGGTGTGGCTCTGCCACGGTCTCGCCCCCTGGTGTG
 GATGCCAAAGCCAGGTGAAGACAGAGACCACAGGCCCCAGGGACCCCACTACACCGACAGCCGT
 CCACTCCAGATCGCCTACACCTCCCTCAGTCTGCCCCACTACGGCTCCGCCTCCCTCCATCTCAGC
 ACCCCAGTTTGACTATTCTGACCATCAGCCCTCAGGACCTATTATGGCCATGCAGGCCAGGCCTCTGGC
 CTCTATTCAGCCTTTTCTTACATGGGGCCCTCCAGCGGCCCTCTACACTGCCATCTCTGACCCAGCC
 CCTCGGGGCCCAATCCACAGTCCACACACTGGGAGCAGCCAGTATATACGACTCTATCCCGACCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207452 representing BC023356
 Red=Cloning site Green=Tags(s)

MAEEQDLSEVELSPVGSEEPRLSPGSAPSLGPDGGGGGSLRASPGGELGKVKKEQQDGEADDDKFPV
 CIREAVSQVLSGYDWTLVPMPVRVNGASKSKPHVKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLGK
 LWRLLESKRPFIEEAERLRMQHKHDHPDYKYQPRRRKNGKAAQGEAECPGGEAEQGGAAAIQAHYKSA
 HLDHRHPEEGSPMSDGNPEHPSGQSHGPPTPTTPKTELQSGKADPKRDGRSLGEGGKPHIDFGNVDIGE
 ISHEVMSNMETFVTELDQYLPPNGHPGHVGSYSAAGYGLGSALAVASGHSAWISKPPGVALPTVSPPGV
 DAKAQVKTETTGPPHYTDQPSTSQIAYTSLSLPHYGSAPFSISRPQFDYSDHQPSGPPYGHAGQASG
 LYSAFSYMGPSQRPLYTAISDPSPSGPQSHSPTHWEQPVYTTLSRP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC023356

ORF Size: 1398 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 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: [BC023356.1](#)

RefSeq Size: 2600 bp

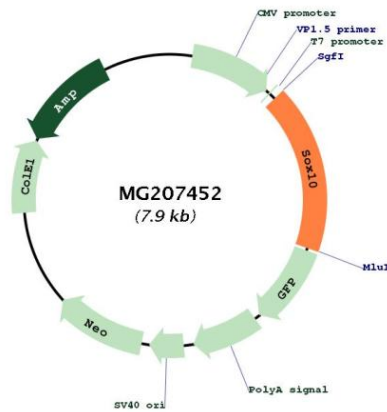
RefSeq ORF: 1400 bp

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]

Product images:



Circular map for MG207452