

## Product datasheet for **MG207750**

### **Pax3 (BC048699) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pax3 (BC048699) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pax3
Synonyms:	Pax-3; Sp; Splchl2; splotch
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207750 representing BC048699  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACCACGCTGGCCGGCGCTGTGCCAGGATGATGCGGCCCGGCCGGGCAGAATTACCCACGCAGCG  
 GCTTCCCCTGGAAGTGTCCACCCTCTTGCCAGGGCCGAGTCAACCAGCTCGGAGGAGTATTTATCAA  
 CGGCAGGCCTCTGCCAACCATATCCGCCACAAGATAGTGGAGATGGCCACCATGGCATTTCGGCCTTGC  
 GTCATTTCTCGCCAGCTTCGCGTGTCCATGGTTGCGTCTCTAAGATCCTGTGCAGGTACCAGGAGACAG  
 GCTCCATCCGACCTGGTCCATCGGCGGCAGAAACCAAGCAGGTGACAACGCCTGACGTGGAGAAGAA  
 AATTGAGGAATACAAAAGAGAGAACCCGGGCATGTTTAGCTGGGAAATCAGAGACAAATTGCTCAAGGAC  
 GCTGTCTGTGATCGAACACTGTGCCCTCAGTGAGTCTATCAGCCGCATCCTGAGGAGTAAATTTGGAA  
 AAGGAGAAGAGGAGGAGCGGATCTAGAAAGGAAGGAAGCAGAAGAAAGCGAGAAAAAGGCTAAACACAG  
 CATCGATGGCATCCTGAGTGAGCGAGCCTCTGCACCTCAGTCAGATGAAGGCTCCGATATTGACTCTGAA  
 CCTGATTTACCGCTGAAGAGGAAGCAGCGCAGGAGCAGAACCACCTTCACGGCAGAGCAGCTGGAGGAAC  
 TGGAGCGGGCTTTCGAGAGAACCCTACTCCAGACATTTACACCAGGGAGGAGCTGGCCCAGAGGGCGAA  
 GCTTACCAGGGCCGAGTGCAGGTCTGGTTTAGCAACCGCGTGAAGATGGAGGAAACAAGCTGGAGCC  
 AATCAACTGATGGCTTTCAACCATCTCATTCCGGGGGATTCCCTCCCACCGCCATGCCGACCCTGCCAA  
 CATACCAGCTGTCCGAGACCTCTTACCAGCCCAGTCTATTCCACAAGCCGTGTCAGATCCCAGTAGCAC  
 CGTCCACAGACCTCAGCCGCTTCTCCGAGCACTGTACACCAAGCACTATTCTTGAACGCAGACAGC  
 AGCTCTGCCTACTGCCTCCCCAGCACCAGGCATGGATTTTCAAGCTATACAGACAGCTTTGTGCCTCCAT  
 CGGGCCCTCAACCCCATGAACCCACCATCGGCAATGGCCTTTCACCTCAGGTAAATGGGACTCTGAC  
 CAACCACGGTGGGTACCGCACCAGCCTCAGACCGACTATGCTCTCTCCCCTCTCACTGGGGCCGGAA  
 CCCACGACCAGGTGTCAGCCAGCTGCAGTCAGAGACTGGAACATATGAAGAATGTGGACAGTCTGCCCA  
 CATCTCAGCCCTATTGTCCCCCACCTATAGCACCGCAGGCTACAGTATGGACCCTGTCACAGGCTACCA  
 GTATGGGCAGTATGGACAAAGTGCCTTTCATTATCTCAAGCCAGATATTGCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207750 representing BC048699  
 Red=Cloning site Green=Tags(s)

MTTLGAVPRMMRPGPGQNYPRSGFPLEVSTPLGQGRVNQLGGVFINRPLPNHIRHKIVEMAHHGIRPC  
 VISRQLRVSHGCVSKILCRYQETGSIIRPGAIGGSKPKQVTPDVEKKIEEYKRENPGMFSWEIRDKLLKD  
 AVCDRNTVPSVSSISRILRSKFGKGESEADLERKEAESEKKAKHSIDGILSERASAPQSDGSDIDSE  
 PDLPLKRRKQRRSRTTFTAEQLEELERAFERTHYDIIYTREELAQRACLTEARVQVWFSNRRARWRKQAGA  
 NQLMAFNHLIPGGFPPTAMPPTLPTYQLSETSYQPTSIQAVSDPSSTVHRPQLPPSTVHQTIPSNADS  
 SSAYCLPSTRHGFSSYTDSFVPPSGPSNPMNPTIGNLSPQVMGLLTNHGGVPHQPQTDYALSPLTGGL  
 PTTTASASCSQRLEHMKNVDSLPTSQPYCPPTYSTAGYSMDPVTGYQYQYQSAFHLYLKPDI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: BC048699

ORF Size: 1452 bp

OTI Disclaimer: 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: [BC048699](#), [AAH48699](#)

RefSeq Size: 1639 bp

RefSeq ORF: 1454 bp

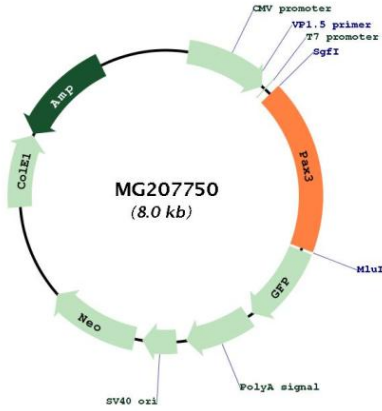
Locus ID: 18505

Cytogenetics: 1 39.79 cM

**Gene Summary:**

Transcription factor that may regulate cell proliferation, migration and apoptosis. Involved in neural development and myogenesis. Transcriptional activator of MITF, acting synergistically with SOX10 (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG207750