

Product datasheet for **MG227275**

Pax3 (NM_008781) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pax3 (NM_008781) 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:

>MG227275 representing NM_008781
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCACGCTGGCCGGCGCTGTGCCAGGATGATGCGGCCCGGCCGGGCAGAAATACCCACGCAGCG
 GCTTCCCCTGGAAGTGTCCACCCTCTTGCCAGGGCCGAGTCAACCAGCTCGGAGGAGTATTTATCAA
 CGGCAGGCCTCTGCCAACCATATCCGCCACAAGATAGTGGAGATGGCCACCATGGCATTTCGGCCTTGC
 GTCATTTCTCGCCAGCTTCGCGTGTCCATGGTTGCGTCTCTAAGATCCTGTGCAGGTACCAGGAGACAG
 GCTCCATCCGACCTGGTCCATCGGCGGCAGAAACCAAGCAGGTGACAACGCCTGACGTGGAGAAGAA
 AATTGAGGAATACAAAAGAGAGAACCCGGGCATGTTTAGCTGGGAAATCAGAGACAAATTGCTCAAGGAC
 GCTGTCTGTGATCGAACACTGTGCCCTCAGTGAGTTCTATCAGCCGCATCCTGAGGAGTAAATTTGGAA
 AAGGAGAAGAGGAGGAGCGGATCTAGAAAGGAAGGAAGCAGAAGAAAGCGAGAAAAAGGCTAAACACAG
 CATCGATGGCATCCTGAGTGAGCGAGCCTCTGCACCTCAGTCAGATGAAGGCTCCGATATTGACTCTGAA
 CCTGATTTACCGCTGAAGAGGAAGCAGCGCAGGAGCAGAACCACCTTCACGGCAGAGCAGCTGGAGGAAC
 TGGAGCGGGCTTTTCGAGAGAACCCTACTCCAGACATTTACACCAGGGAGGAGCTGGCCCAGAGGGCGAA
 GCTTACCAGGGCCGAGTGCAGGTCTGGTTTAGCAACCGCGTGAAGATGGAGGAAACAAGCTGGAGCC
 AATCAACTGATGGCTTTCAACCATCTCATTCCGGGGGATTCCCTCCCACCGCCATGCCGACCCTGCCAA
 CATACCAGCTGTCGGAGACCTCTTACCAGCCCAGTCTATTCCACAAGCCGTGTCAGATCCCAGTAGCAC
 CGTCCACAGACCTCAGCCGCTTCTCCGAGCACTGTACACCAAAGCACTATTCTTGAACGCAGACAGC
 AGCTCTGCCTACTGCCTCCCCAGCACCAGGCATGGATTTTCAAGCTATACAGACAGCTTTGTGCCTCCAT
 CGGGCCCTCAACCCCATGAACCCACCATCGGCAATGGCCTTTCACCTCAGGTAAATGGGACTTCTGAC
 CAACCACGGTGGGTACCGCACCAGCCTCAGACCGACTATGCTCTCTCCCTCTCACTGGGGCCCTGGAA
 CCCACGACCAGGTGTCAGCCAGCTGCAGTCAGAGACTGGAACATATGAAGAATGTGGACAGTCTGCCCA
 CATCTCAGCCCTATTGTCCCCCACCTATAGCACCGCAGGCTACAGTATGGACCCTGTCACAGGCTACCA
 GTATGGGCAGTATGGACAAAGTAAGCCTTGGACGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG227275 representing NM_008781
 Red=Cloning site Green=Tags(s)

MTTLGAVPRMMRPGPGQNYPRSGFPLEVSTPLGQGRVNQLGGVFINGRPLPNHIRHKIVEMAHHGIRPC
 VISRQLRVSHGCVSKILCRYQETGSIIRPGAIGGSKPKQVTPDVEKKIEEYKRENPGMFSWEIRDKLLKD
 AVCDRNTVPSVSSISRILRSKFGKGESEADLERKEAESEKKAKHSIDGILSERASAPQSDGSDIDSE
 PDLPLKRRQRRSRTTFTAEQLEELERAFERTHYDIIYTREELAQRACLTEARVQVWFSNRRARWRKQAGA
 NQLMAFNHLIPGGFPPTAMPPTLPTYQLSETSYQPTSIPQAVSDPSSTVHRPQPLPPSTVHQTIPSNADS
 SSAYCLPSTRHGFSSYTDSFVPPSGPSNPMNPTIGNLSPQVMGLLTNHGGVPHQPQTDYALSPLTGGLE
 PTTTVSASCSQRLEHMKNVDSLPTSQPYPPTYSTAGYSMDPVTGYQYQYQSKPWTF

TRTRPLE - GFP Tag - V

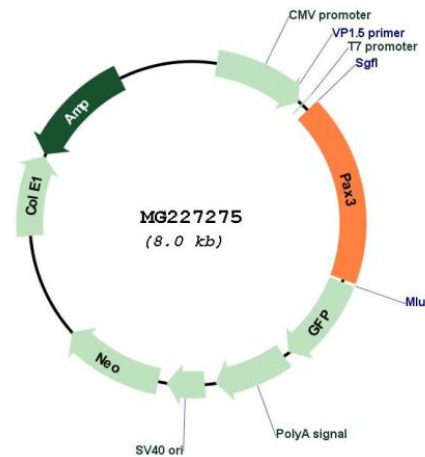
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008781

ORF Size: 1437 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: [NM_008781.4](#), [NP_032807.3](#)

RefSeq Size: 3868 bp

RefSeq ORF: 1440 bp

Locus ID: 18505

UniProt ID: [P24610](#)

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]