

## Product datasheet for **RG219920**

### **PAX3 (NM\_181459) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PAX3 (NM_181459) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PAX3
Synonyms:	CDHS; HUP2; WS1; WS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG219920 representing NM\_181459  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCACGCTGGCCGGCGCTGTGCCAGGATGATGCGGCCGGGCCGGGGCAGAACTACCCGCGTAGCG  
 GGTCCCCTGGAAGTGTCCACTCCCCTCGGCCAGGGCCGCGTCAACCAGCTCGGCGCGTTTTTATCAA  
 CGGCAGGCCGCTGCCAACCACATCCGCCACAAGATCGTGGAGATGGCCACCACGGCATCCGGCCCTGC  
 GTCATCTCGCGCCAGCTGCGCGTGTCCACGGCTGCGTCTCCAAGATCCTGTGCAGGTACCAGGAGACTG  
 GCTCCATACGTCCTGGTCCATCGGCGGCAGCAAGCCCAAGCAGGTGACAACGCCGTGACGTGGAGAAGAA  
 AATTGAGGAATACAAAAGAGAGAACCCGGGCATGTTCACTGGGAAATCCGAGACAAATTACTCAAGGAC  
 GCGGTCTGTGATCGAAACACCGTGCCGTCAGTGTCCATCAGCCGCATCCTGAGAAGTAAATTCGGGA  
 AAGGTGAAGAGGAGGAGCGGACTTGGAGAGGAAGGAGGCAGAGGAAAGCGAGAAGAAGGCCAAACACAG  
 CATCGACGGCATCCTGAGCGAGCGAGCCTCAGCACCCCAATCAGATGAAGGCTCTGATATTGACTCTGAA  
 CCAGATTTACCACTAAAGAGGAAACAGCGCAGAAGCCGAACCACCTTCACAGCAGAACAGCTGGAGGAAC  
 TGGAGCGTGCTTTTGGAGAACTCATTACCTGACATTTATACTAGGGAGGAACTGGCCAGAGGGCGAA  
 GCTCACCGAGGCCGAGTACAGGTCTGGTTTAGCAACCGCCGTGCAAGATGGAGGAAGCAAGCTGGGGCC  
 AATCAACTGATGGCTTTCAACCATCTCATTCCCGGGGGTTCCCTCCCCTGCCATGCCGACCTTGCCAA  
 CGTACCAGCTGTGCGAGACCTCTACCAGCCACATCTATTCCACAAGCTGTGTCAGATCCCAGCAGCAC  
 CGTTCACAGACCTCAACCGCTTCTCCAAGCACTGTACACCAAGCAGATTCTTCCAACCCAGACAGC  
 AGCTCTGCCTACTGCCTCCCAGCACCAGGCATGGATTTCCAGCTATACAGACAGCTTTGTGCCTCCGT  
 CGGGCCCTCAACCCCATGAACCCACCATGGCAATGGCTCTCACCTCAGGTAATGGGACTCCTGAC  
 CAACACCGTGGGTACCTCATCAGCCCAAGACTGATTACGCGCTCTCCCCTCTCACCGGGGTCTGGAA  
 CCTACCACCAGGTGTCGGCCAGCTGCAGTCAGAGACTAGACCATATGAAGAGCTTGACAGTCTGCCAA  
 CATCTCAGTCTACTGTCCACCCACCTATAGCACACAGGCTACAGTATGGACCCTGTCACAGGCTACCA  
 ATATGGGCAGTATGGACAAAGTGCCTTTCATTATCTCAAGCCAGATATCGCTTGGTTTCAAATCCTTTTG  
 AACACGTTTCGACAAAAGCAGTGGAGAAGAGGAAGACCTGGAGCAA

**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA**

**Protein Sequence:**

>RG219920 representing NM\_181459  
 Red=Cloning site Green=Tags(s)

MTTLGAVPRMMPGPGQNYPRSGFPLEVSTPLGQGRVNQLGGVFINRPLPNHIRHKIVEMAHHGIRPC  
 VISRQLRVSHGCVSKILCRYQETGSIRPGAIGGSKPKQVTPDVEKKIEEYKRENPMFMSWEIRDKLLKD  
 AVCDRNTVPSVSSISRILRSKFGKGESEADLERKEAESEKAKHSIDGILSERASAPQSDGSDIDSE  
 PDLPLKRKQRRSRTTFTAEQLEELERAFERTHYDIIYTRELAQRAKLEARVQVWF SNRRARWRKQAGA  
 NQLMAFNHLIPGGFPPTAMPPTLPTYQLSETSYQPTSIPQAVSDPSSTVHRPQPLPSTVHQSTIPSNPDS  
 SSAYCLPSTRHGFSSYTDSFVPPSGPSNPMNPTIGNLSPQVMGLL TNHGGVPHQPQTDYAL SPLTGGLE  
 PTTTVSASCSQRLDHMKSLSLPTSQSYCPPTYSTTGYSMDPVTGYQYQYQSAFHYLKPDIAWFQILL  
 NTFDKSSGEEEDLEQ

**TRTRPLE – GFP Tag – V**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja2727\\_d08.zip](https://cdn.origene.com/chromatograms/ja2727_d08.zip)

**Restriction Sites:**

Sgfl-MluI



RefSeq: [NM\\_181459.1](#), [NP\\_852124.1](#)

RefSeq Size: 3170 bp

RefSeq ORF: 1518 bp

Locus ID: 5077

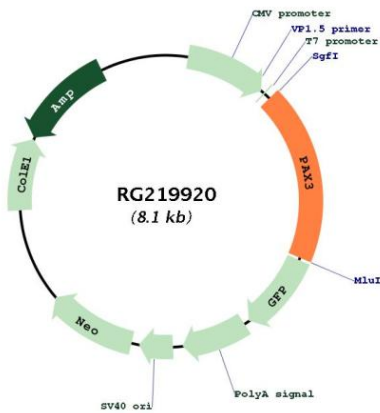
UniProt ID: [P23760](#)

Cytogenetics: 2q36.1

Protein Families: Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors

**Gene Summary:** This gene is a member of the paired box (PAX) family of transcription factors. Members of the PAX family typically contain a paired box domain and a paired-type homeodomain. These genes play critical roles during fetal development. Mutations in paired box gene 3 are associated with Waardenburg syndrome, craniofacial-deafness-hand syndrome, and alveolar rhabdomyosarcoma. The translocation t(2;13)(q35;q14), which represents a fusion between PAX3 and the forkhead gene, is a frequent finding in alveolar rhabdomyosarcoma. Alternative splicing results in transcripts encoding isoforms with different C-termini. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG219920