

## Product datasheet for **RG219983**

### **PAX3 (NM\_181461) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PAX3 (NM_181461) 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)
ORF Nucleotide Sequence:	>RG219983 representing NM_181461 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCACGCTGGCCGGCCTGTGCCAGGATGATGCGGCCGGGCCGGGGCAGAACTACCCGCTAGCG  
GGTTCCCCTGGAAGTGTCCACTCCCCTCGGCCAGGGCCGCTCAACCAGCTCGGCGCGTTTTTATCAA  
CGGCAGGCCGCTGCCAACCACATCCGCCACAAGATCGTGGAGATGGCCACCACGGCATCCGGCCCTGC  
GTCATCTCGGCCAGCTGCGCGTGTCCACGGTGCCTCCAAGATCCTGTGCAGTACCAGGAGACTG  
GCTCCATACGTCTGGTCCATCGCGGCAGCAAGCCCAAGCAGGTGACAACGCCTGACGTGGAGAAGAA  
AATTGAGGAATACAAAAGAGAGAACCCGGGCATGTTACGCTGGGAAATCCGAGACAAATTAAGGAC  
GCGGTCTGTGATCGAAACACCGTGCCGTGAGTTCATCAGCCGCATCCTGAGAAGTAAATTCGGGA  
AAGGTGAAGAGGAGGAGGCCGACTTGGAGAGGAAGGAGGCAGAGGAAAGCGAGAAGAAGGCCAAACACAG  
CATCGACGGCATCCTGAGCGAGCGAGCCTCAGCACCCCAATCAGATGAAGGCTCTGATATTGACTCTGAA  
CCAGATTTACCACTAAAGAGGAAACAGCGCAGAAGCCGAACACCTTACAGCAGAACAGCTGGAGGAAC  
TGGAGCGTGCTTTTGAAGAACTCATTACCCTGACATTTATACTAGGGAGGAACTGGCCAGAGGGCGAA  
GCTCACCGAGGCCGAGTACAGGTCTGGTTTAGCAACCGCCGTGCAAGATGGAGGAAGCAAGCTGGGGCC  
AATCAACTGATGGCTTTCAACCATCTCATTCCCGGGGGTTCCCTCCCACTGCCATGCCGACCTTGCCAA  
CGTACCAGCTGTCGGAGACCTTTACCAGCCACATCTATTCCACAAGCTGTGTCAGATCCAGCAGCAC  
CGTTACAGACCTCAACCGCTTCCCAAGCACTGTACACCAAAGCACGATTCTTCCCAACCCAGACAGC  
AGCTCTGCCTACTGCCTCCCAGCACCAGGCATGGATTTTCCAGCTATACAGACAGCTTTGTGCCTCCGT  
CGGGGCCCTCCAACCCATGAACCCACCATTGGCAATGGCCTCTCACCTCAGGTGCCTTTCATTATCTC  
AAGCCAGATATCGCGTAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG219983 representing NM\_181461  
 Red=Cloning site Green=Tags(s)

MTTLGAVPRMMRPGPGQNYPRSGFPLEVSTPLGQGRVNQLGGVFINRPLPNHIRHKIVEMAHHGIRPC  
 VISRQLRVSHGCVSKILCRYQETGSIRPGAIGGSKPKQVTPDVEKKIEEYKRENPGMFSWEIRDKLLKD  
 AVCDRNTVPSVSSISRILRSKFKGEEEEADLERKEAESEKKAKHSIDGILSERASAPQSDSDIDSE  
 PDLPLKRKQRRSRTTFTAEQLEELERAFERTHYDPIYTREELAQRACL TEARVQVWFSNRRARWRKQAGA  
 NQLMAFNHLIPGGFPPTAMPTLPTYQLSETSYQPTSIPQAVSDPSSTVHRPQPLPPSTVHQSTIPSNPDS  
 SSAYCLPSTRHGFSSYTDSFVPPSPGSPNPMNPTIGNLSPQVPFIISSQISRK

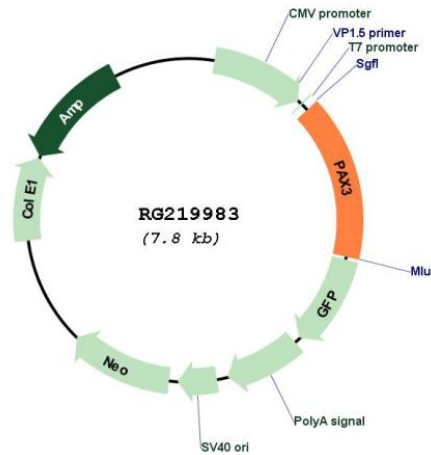
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_181461

<b>ORF Size:</b>	1209 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_181461.1</a> , <a href="#">NP_852126.1</a>
<b>RefSeq Size:</b>	1650 bp
<b>RefSeq ORF:</b>	1212 bp
<b>Locus ID:</b>	5077
<b>UniProt ID:</b>	<a href="#">P23760</a>
<b>Cytogenetics:</b>	2q36.1
<b>Protein Families:</b>	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors
<b>Gene Summary:</b>	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]