

Product datasheet for **RG225823**

PAX3 (NM_001127366) Human Tagged ORF Clone

Product data:

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|---------------------------|--------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | PAX3 (NM_001127366) 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) |



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ORF Nucleotide Sequence:

>RG225823 representing NM_001127366
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACCACGCTGGCCGGCGCTGTGCCAGGATGATGCGGCCGGGCCGGCCGGGCAGAACTACCCGCGTAGCG
 GGTTCCCCTGGAAGTGTCCACTCCCCTCGGCCAGGGCCGCGTCAACCAGCTCGGCGGTGTTTTATCAA
 CGGCAGGCCGCTGCCAACCACATCCGCCACAAGATCGTGGAGATGGCCACCACGGCATCCGGCCCTGC
 GTCATCTCGCGCCAGCTGCGCGTGTCCACGGCTGCGTCTCCAAGATCCTGTGCAGGTACCAGGAGACTG
 GCTCCATACGTCCTGGTCCATCGGCGGCAGCAAGCCCAAGGTGACAACGCCTGACGTGGAGAAGAAAAAT
 TGAGGAATACAAAAGAGAGAACCCGGGCATGTTCACTGAGTGGAAATCCGAGACAAATTAAGGACGCG
 GTCTGTGATCGAAACACCGTGCCGTGAGTCCATCAGCCGCATCCTGAGAAGTAAATTCGGGAAAAG
 GTGAAGAGGAGGAGGCCACTTGGAGAGGAAGGAGGCAGAGGAAAGCGAGAAGAAGGCCAAACACAGCAT
 CGACGGCATCCTGAGCGAGCGAGCCTCAGCACCCCAATCAGATGAAGGCTCTGATATTGACTCTGAACCA
 GATTTACCACTAAAGAGGAAACAGCGCAGAAGCCGAACACCTTCACAGCAGAACAGCTGGAGGAACTGG
 AGCGTGCTTTTGAGAGAACTCATTACCCTGACATTTATACTAGGGAGGAACTGGCCAGAGGGCGAAGCT
 CACCGAGGCCCGAGTACAGGTCTGGTTTAGCAACCGCCGTGCAAGATGGAGGAAGCAAGCTGGGGCCAAT
 CAACTGATGGCTTTCAACCATCTCATTCCCGGGGGTTCCCTCCCACTGCCATGCCGACCTTGCCAACTG
 ACCAGCTGTCGGAGACCTTACCAGCCACATCTATCCACAAGCTGTGTGAGTCCCAGCAGCACCGT
 TCACAGACCTCAACCGCTTCTCCAAGCACTGTACACCAAGCAGGATTCCTTCCAACCCAGACAGCAGC
 TCTGCCTACTGCCTCCCCAGCACCAGGCATGGATTTTCCAGCTATACAGACAGCTTTGTGCCTCCGTCGG
 GGCCCTCAACCCCATGAACCCACCATTGGCAATGGCCTCTCACCTCAGGTAATGGGACTCCTGACCAA
 CCACGGTGGGGTACCTCATCAGCCCGAGACTGATTACGCGCTCTCCCTCTCACCGGGGGTCTGGAACT
 ACCACCACGGTGTGCGCCAGCTGCACTGAGAGACTAGACCATATGAAGAGCTTGGACAGTCTGCCAAT
 CTCAGTCTACTGTCCACCCACCTATAGCACCACAGGCTACAGTATGGACCCTGTACAGGCTACCAATA
 TGGGCAGTATGGACAAAGTGCCTTTTATTCTCAAGCCAGATATCGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG225823 representing NM_001127366
 Red=Cloning site Green=Tags(s)

MTTLGAVPRMMRPGPGQNYPRSGFPLEVSTPLGQGRVNQLGGVFINRPLPNHIRHKIVEMAHHGIRPC
 VISRQLRVSHGCVSKILCRYQETGSIIRPGAIGGSKPKVTPDVEKKIEEYKRENPGMFSWEIRDKLLKDA
 VCDRNTVPSVSSISRILRSKFGKGEEDLERKEAEESEKKAKHSIDGILSERASAPQSDEGSDIDSEP
 DLPLKRKRQRRTTFTAEQLEELERAFERTHYPDYITREELAQRAKLEARVQVWF SNRRARWRKQAGAN
 QLMFNLHLPGGFPPTAMPPLPTYQLSETSYQPTIPQAVSDPSSVHRPQPLPPSTVHQTIPSNPDSS
 SAYCLPSTRHGFSSYTDSFVPPSGPSNPMNPTIGNLSPQVMGLLTNHGGVPHQPQTDYALSPLTGGLEP
 TTTVSASCSQRLDHMKSLDSLPTSQSYCPPTYSTTGYSMDPVTGYQYQYQSAFHLYKPDIA

TRTRPLE - GFP Tag - V

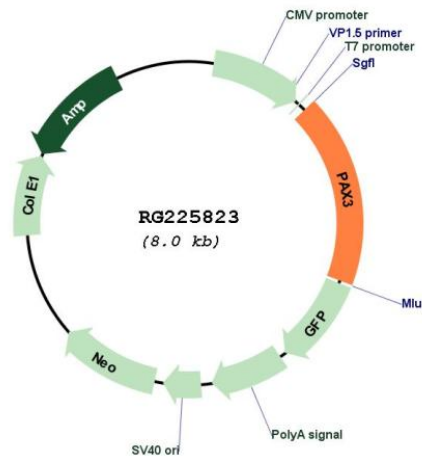
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001127366

ORF Size: 1449 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).

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| Reconstitution Method: | <ol style="list-style-type: none">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_001127366.3 |
| RefSeq Size: | 3356 bp |
| RefSeq ORF: | 1452 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: | <p>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]</p> |