

Product datasheet for **RG222827**

PAX3 (NM_000438) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: PAX3 (NM_000438) 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: >RG222827 representing NM_000438
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCACGCTGGCCGGCGCTGTGCCAGGATGATGCGGCCGGGCCGGGGCAGAACTACCCGCTAGCG
 GGTTCCCCTGGAAGTGTCCACTCCCCTCGGCCAGGGCCGCTCAACCAGCTCGGCGGTGTTTTATCAA
 CGGCAGGCCGCTGCCAACCACATCCGCCACAAGATCGTGGAGATGGCCACCACGGCATCCGGCCCTGC
 GTCATCTCGGCCAGCTGCGCGTGTCCACGGCTGCGTCTCAAGATCCTGTGCAGTACCAGGAGACTG
 GCTCCATACGTCTGGTCCATCGCGCGCAGCAAGCCCAAGCAGGTGACAACGCCTGACGTGAGAAAGAA
 AATTGAGGAATACAAAAGAGAGAAACCCGGCATGTTACGCTGGGAAATCCGAGACAAATTAAGGAC
 GCGGTCTGTGATCGAAACACCGTGCCGTGAGTTCATCAGCCGCATCCTGAGAAGTAAATTCGGGA
 AAGGTGAAGAGGAGGAGGCCGACTTGGAGAGGAAGGAGGCAGAGGAAAGCGAGAAGAAGGCCAAACACAG
 CATCGACGGCATCCTGAGCGAGCGAGGTAAGCGGTGGCGCCTTGGCGGCCGCACTTGCTGGGTGACTTGG
 AGGGCATCGGCTAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222827 representing NM_000438
Red=Cloning site Green=Tags(s)

MTTLGAVPRMMRPGPGQNYPRSGFPLEVSTPLGQGRVNQLGGVFINGRPLPNHIRHKVEMAHHGIRPC
 VISRQLRVSHGCVSKILCRYQETGSIRPGAIGGSKPKQVTPDVEKKIEEYKRENPGMFSWEIRDKLLKD
 AVCDRNTVPSVSSISRILRSKFGKGEEEEADLERKEAESEKKAKHSIDGILSERGKRWRLGRRTCWVTW
 RASAS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000438

ORF Size: 645 bp

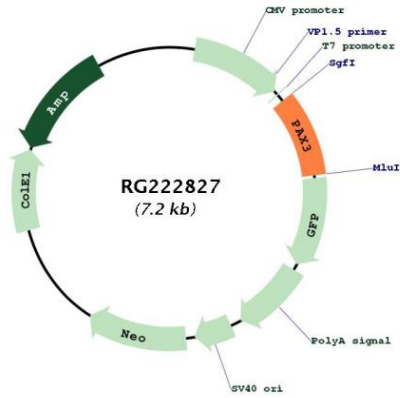
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<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_000438.6
RefSeq Size:	1504 bp
RefSeq ORF:	648 bp
Locus ID:	5077
UniProt ID:	P23760
Cytogenetics:	2q36.1
Domains:	PAX
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 RG222827