

# Product datasheet for RC222827L3

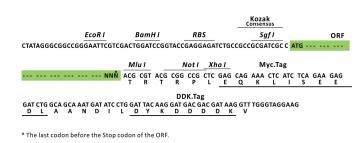
### PAX3 (NM\_000438) Human Tagged Lenti ORF Clone

#### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	PAX3 (NM_000438) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	PAX3
Synonyms:	CDHS; HUP2; WS1; WS3
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC222827).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling:          Sgf I       ORF       Mlu I         GCG ATC GCC       ATG // NNN       ACG CGT



ACCN: ORF Size: NM\_000438 645 bp



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## **PAX3 (NM\_000438) Human Tagged Lenti ORF Clone – RC222827L3**

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 <u>custsupport@origene.com</u> 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. <u>More info</u>
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 000438.5</u>
RefSeq Size:	1504 bp
RefSeq ORF:	648 bp
Locus ID:	5077
UniProt ID:	<u>P23760</u>
Cytogenetics:	2q36.1
Domains:	PAX
Protein Families:	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors
MW:	24.1 kDa

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

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