

Product datasheet for **RG222785**

PAX5 (NM_016734) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAX5 (NM_016734) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PAX5
Synonyms:	ALL3; BSAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222785 representing NM_016734 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTTAGAGAAAAATTATCCGACTCCTCGGACCAGCAGGACAGGACATGGAGGAGTGAATCAGCTTG
GGGGGTTTTTGTGAATGGACGGCCACTCCCGGATGTAGTCCGCCAGAGGATAGTGAAC TTGCTCATCA
AGGTGTCAGGCCCTGCGACATCTCCAGGCAGTTCGGGTAGCCATGGTTGTGTCAGAAAATTCTTGGC
AGGTATTATGAGACAGGAAGCATCAAGCCTGGGTAATTGGAGGATCCAAACAAAGGTCCGCCACACCCA
AAGTGGTGGAAAAATCGCTGAATATAAACGCCAAAATCCCACCATGTTTGCCTGGGAGATCAGGGACCG
GCTGCTGGCAGAGCGGGTGTGTGACAATGACACCGTGCCTAGCGTCAGTCCATCAACAGGATCATCCGG
ACAAAAGTACAGCAGCCACCCAACCAACAGTCCAGCTTCCAGTCACAGCATAGTGTCCACTGGCTCCG
TGACGCAGGTGTCTCGGTGAGCACGGATTCGGCCGGCTCGTCTGACTCCATCAGCGGCATCCTGGGCAT
CACGTCCCCCAGCGCCGACCAACAAGCGCAAGAGAGACGAAGTATTCAGGAGTCTCCGGTGCCGAAC
GGCCACTCGCTTCCGGGCAGAGACTTCTCCGGAAGCAGATGCGGGGAGACTTGTTCACACAGCAGCAGC
TGGAGGTGCTGGACCGCGTGTGAGAGGCAGCACTACTCAGACATCTTCACCACCACAGAGCCCATCAA
GCCCGAGCAGACCACAGAGTATTCAGCCATGGCCTCGCTGGCTGGTGGGCTGGACGACATGAAGGCCAAT
CTGGCCAGCCCCACCCCTGCTGACATCGGGAGCAGTGTGCCAGGCCCGCAGTCTACCCCATTTGTGACAG
GCCGTGACTTGGCGAGCACGACCCTCCCGGGTACCCTCCACACGTCCCCCGCTGGACAGGGCAGCTA
CTCAGCACCGACGCTGACAGGGATGGTGCCTGGGAGTGAGTTTTCCGGGAGTCCCTACAGCCACCCTCAG
TATTCCTCGTACAACGACTCCTGGAGGTTCCCAACCCGGGGCTGCTTGCTCCCCCTACTATTATAGCG
CTGCCGCCGAGGAGCCGCCACCTGCAGCCGCCACTGCCTATGACCGTCAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222785 representing NM_016734
Red=Cloning site Green=Tags(s)

MDLEKNYPTPRTSRTGHGGVNLGGVFNVRPLPDVVRQRIVELAHQGVPCDISRQLRVSHGCVSKILG
 RYYETGSIKPGVIGGSKPKVATPKVVEKIAEYKRQNPMTFAWEIRDLLAERVCDNDTPSVSSINRIIR
 TKVQQPPNPVPASSHSIVSTGSVTQVSSVSTDSAGSSYSISGILGITSPSADTNKRKRDEGIQESVVPN
 GHSLPGRDFLRKQMRGDLFTQQQLEVLDRVFERQHYSDIFTTTEPIKPEQTTEYSAMASLAGGLDDMKAN
 LASPTPADIGSSVPGPQSYPIVTGRDLASTTLPGYPPHVPPAGQGSYSAPTLTGMVPGSEFSGSPYSHQP
 YSSYNDSWRFPNPGLLGGSPYYSAAARGAAPPAATAYDRH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016734

ORF Size: 1173 bp

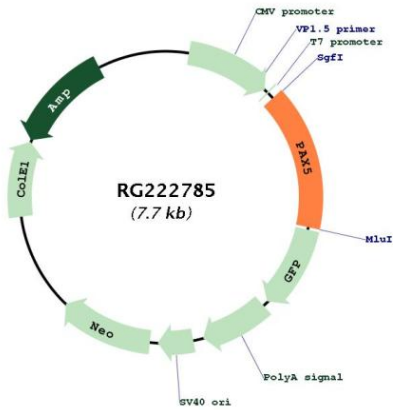
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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_016734.3
RefSeq Size:	3650 bp
RefSeq ORF:	1176 bp
Locus ID:	5079
UniProt ID:	Q02548
Cytogenetics:	9p13.2
Protein Families:	Transcription Factors
Gene Summary:	<p>This gene encodes a member of the paired box (PAX) family of transcription factors. The central feature of this gene family is a novel, highly conserved DNA-binding motif, known as the paired box. Paired box transcription factors are important regulators in early development, and alterations in the expression of their genes are thought to contribute to neoplastic transformation. This gene encodes the B-cell lineage specific activator protein that is expressed at early, but not late stages of B-cell differentiation. Its expression has also been detected in developing CNS and testis and so the encoded protein may also play a role in neural development and spermatogenesis. This gene is located at 9p13, which is involved in t(9;14)(p13;q32) translocations recurring in small lymphocytic lymphomas of the plasmacytoid subtype, and in derived large-cell lymphomas. This translocation brings the potent E-mu enhancer of the IgH gene into close proximity of the PAX5 promoter, suggesting that the deregulation of transcription of this gene contributes to the pathogenesis of these lymphomas. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013]</p>

Product images:



Circular map for RG222785