

Product datasheet for MR222617

Pax5 (NM_008782) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pax5 (NM_008782) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pax5
Synonyms:	BSAP; EBB-1; KLP; Pax-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222617 representing NM_008782 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGATTTAGAGAAAAATTACCGACTCCTCGGACCATCAGGACAGGACATGGAGGAGTGAATCAGCTTG
GGGGGTTTTGTGAATGGACGGCCACTCCAGATGTAGTCCGCCAAAGGATAGTGAAC TTGCCATCA
AGGTGTCAGGCCCTGCGACATCTCCAGGCAGTTCGGGTAGCCATGGTTGTGTCAGCAAATTCTTGGC
AGGTATTATGAGACAGGAAGCATCAAGCCGGGGTGATTGGAGGATCAAACCAAAGTTGCCACTCCCA
AAGTGGTGAAAAAATCGCTGAGTACAAACGCCAAACCTACCATGTTTGCCTGGGAGATCAGGGACCG
GCTGTTGGCAGAGCGAGTCTGTGACAATGACACTGTGCCAGCGTCAGCTCCATCAACAGGATCATTCCG
ACAAAAGTACAGCAGCCCCCAATCAGCCGGTCCAGCTTCCAGTCACAGCATAGTGTCTACAGGCTCCG
TGACGCAGGTGTCATCGGTGAGCACCGACTCCGCGGGCTCCTCATACTCCATCAGTGGCATCCTGGGCAT
CACGTCCCCAGTGCCGACCAACAAACGCAAGAGGGATGAAGGTATTCAGGAGTCTCCAGTGCCGAAT
GGCCACTCACTTCCGGGCCGGGACTTCTCCGGAAGCAGATGCGGGGAGACCTGTTACACAGCAGCAGC
TGGAGGTGCTGGACCGCGTGTGAGAGACAGCACTACTCTGACATCTTACCACCACGGAACCCATCAA
GCCAGAACAGACCACAGAGTATTCAGCCATGGCTTCACTGGCTGGAGGCTGGATGACATGAAAGCCAAC
TTGACGAGCCCCACCCCGCTGACATCGGAGCAGCGTTCCAGGCCACAGTCCCTACCTATTGTACAG
GCCGAGACTTGGCGAGCACAAACCTCCCGGGTACCCTCCACACGTCCCCCGCTGGACAGGGCAGCTA
CTCTGCACCGACGCTGACAGGGATGGTGCCTGGGAGTGAATTTTCTGGAAGTCCCTACAGCCACCCCTCAG
TATTCTTCTACAATGATTCTTGAGGTTCCCAACCCAGGGCTGCTTGCTCCCATACTATTACAGCC
CTGCAGCCGAGGAGCGGCCACCGGCCGAGCCACCGCCTATGACCGTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222617 representing NM_008782
Red=Cloning site Green=Tags(s)

MDLEKNYPTPRTIRTGHGGVNQLGGVFNVRPLPDVVRQRIVELAHQGVRPCDISRQLRVSHGCVSKILG
 RYYETGSIKPGVIGGSKPKVATPKVVEKIAEYKRQNTMFAWEIRDRLAERVCDNDTPSVSSINRIIR
 TKVQQPPNQVPASSHSIVSTGSVTQVSSVSTDSAGSSYSISGILGITSPSADTNKRKRDEGIQESPVPN
 GHSLPGRDFLRKQMRGDLFTQQQLEVLDRVFERQHYSDFITTTTEPIKPEQTTEYSAMASLAGGLDDMKAN
 LTSPTPADIGSSVPGPQSYPIVTRDLASTTLPGYPPHPPAGQGSYSAPTLTGMVPGSEFSGSPYSHPQ
 YSSYNDSWRFPNPGLLGSPYYYSAPAARGAAPPAATAYDRH

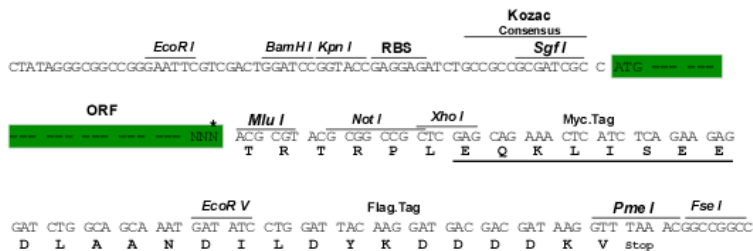
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9033_b05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008782

ORF Size: 1173 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).

Reconstitution Method:

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_008782.3](#)

RefSeq Size: 1208 bp

RefSeq ORF: 1176 bp

Locus ID: 18507

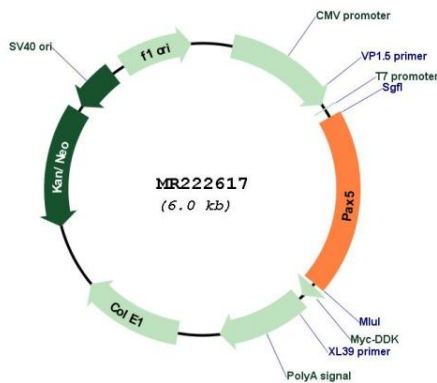
UniProt ID: [Q02650](#)

Cytogenetics: 4 23.55 cM

MW: 42.7 kDa

Gene Summary: May play an important role in B-cell differentiation as well as neural development and spermatogenesis. Involved in the regulation of the CD19 gene, a B-lymphoid-specific target gene.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222617