OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR226228

Ptf1a (NM_018809) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptf1a (NM_018809) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptf1a
Synonyms:	bHLHa29; PTF1-p48; PTF1p48
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR226228 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGCCGTACTCCTGGAGCACTTCCCCGGGGGCCTGGACACCTTCCCATCCCCTTACTTTGATGAGG
AAGATTTCTTCACCGACCAGTCCTCTCGGGACCCGCTGGAGGACAGCGACGAGCTGCTGGGGGACGAGCA
AGCAGAAGTAGAGTTCCTCAGCCACCAGCTACACGAATACTGCTACCGCGACGGGGCGTGCCTGCTGCTG
CAACCCGCGCCCTCGGCCGCCCCGCACGCGCTCGCCCCGCCGCCTTTGGGGGATCCTGGCGAGCCCGAGG
ACAACGTCAGCTATTGCTGCGATGCAGGGGCTCCTCTCGCTGCCTTCCCCTACTCGCCTGGCTCACCGCC
CTCGTGCCTCGCCTACCCGTGTGCCGCGGTGCTGTCCCCCGGTGCGCGGCTCGGTGGTTTGAACGGGGCT
GCGGCAGCGGCGGCAGCAAGGCGGCGGCGACGCGTGCGCTCCGAGGCGGAGCTGCAGCAGCTGCGACAAG
CCGCTAATGTGCGAGAGCGGCGCCGCATGCAGTCCATCAACGACGCCTTCGAGGGGCTGCGTTCGCACAT
CCCCACGCTACCCTACGAAAAGCGCCTCTCCAAAGTAGACACGCTGCGCTTGGCCATAGGCTACATTAAC
TTCCTCAGCGAGCTGGTGCAAGCCGACCTGCCGCTGCGCGGGAGTGGCGCAGGTGGTTGCGGGGGCCCAG
GTGGCAGCCGGCACCTCGGAGAGGACAGTCCCGGTAACCAGGCCCAGAAGGTTATCATCTGCCATCGAGG
CACCCGTTCACCCTCCCCCAGTGACCCGGATTATGGTCTCCCTCCTCTTGCAGGGCACTCTCTTTCCTGG
ACTGATGAAAAACAGCTCAAAGAACAAAATATCATCCGTACAGCTAAAGTGTGGACCCCAGAGGACCCCA
GAAAACTCAACAGTAAATCTTTCGACAACATAGAGAACGAACCACCCTTTGAGTTTGTGTCC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

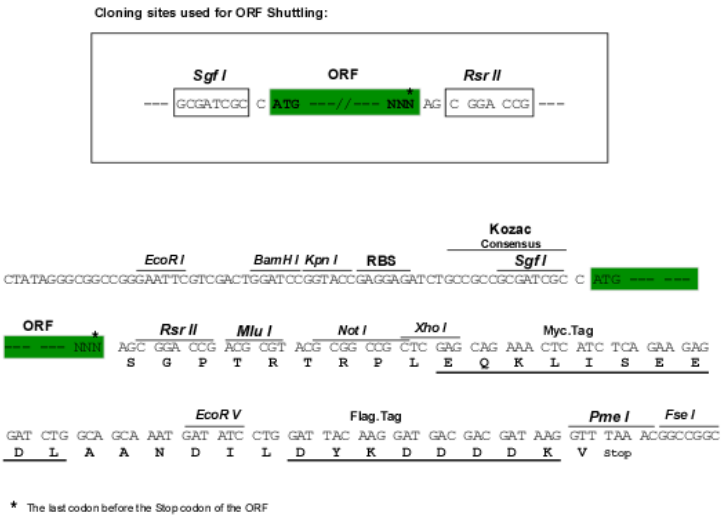
>MR226228 protein sequence
Red=Cloning site Green=Tags(s)

MDAVLLEHFPGGLDTFPSPYFDEEDFFTDQSSRDPLEDSDELLGDEQAEVEFLSHQLHEYCYRDGACLLL
QPAPSAAPHALAPPPLGDPGEPEDNVSYCCDAGAPLAAFPYSPGSPPSCLAYPCAAVLSPGARLGGLNGA
AAAAAARRRRRVRSEAELQQLRQAANVRERRRMQSINDAFEGLRSHIPTLPYEKRLSKVDTLRLAIGYIN
FLSELVQADLPLRGSGAGGCGGPGGSRHLGEDSPGNQAQKVIICHRGTRSPSPSDPDYGLPPLAGHSLSW
TDEKQLKEQNIIRTAKVWTPEDPRKLNSKSFDNIENEPPFEFVS

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_018809

ORF Size: 975 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_018809.2, NP_061279.2

RefSeq Size: 1508 bp

RefSeq ORF: 975 bp

Locus ID: 19213

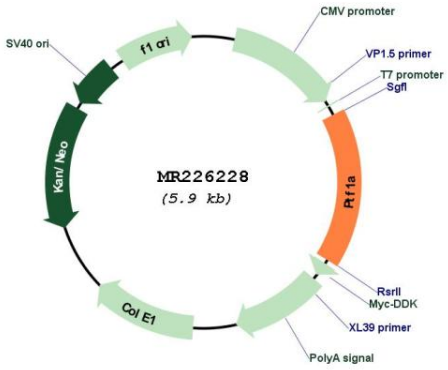
UniProt ID: Q9QX98

Cytogenetics: 2 A3

MW: 35.2 kDa

Gene Summary: Transcription factor implicated in the cell fate determination in various organs. Binds to the E-box consensus sequence 5'-CANNTG-3'. Plays a role in early and late pancreas development and differentiation. Important for determining whether cells allocated to the pancreatic buds continue towards pancreatic organogenesis or revert back to duodenal fates. May be involved in the maintenance of exocrine pancreas-specific gene expression including ELA1 and amylase. Required for the formation of pancreatic acinar and ductal cells. Plays an important role in cerebellar development. Directly regulated by FOXN4 and RORC during retinal development, FOXN4-PTF1A pathway plays a central role in directing the differentiation of retinal progenitors towards horizontal and amacrine fates. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226228