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 RC215116

PKMYT1 (NM_182687) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PKMYT1 (NM_182687) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PKMYT1
Synonyms:	MYT1; PPP1R126
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC215116 representing NM_182687
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTAGAACGGCCTCCTGCACTGGCCATGCCCATGCCCACGGAGGGCACCCCGCCACCTCTGAGTGGCA
CCCCCATCCCAGTCCCAGCCTACTTCCGCCACGCAGAACCTGGATTCTCCCTCAAGAGGCCCAGGGGGCT
CAGCCGGAGCCTCCCACCTCCGCCCCCTGCCAAGGGCAGCATTCCCATCAGCCGCCTCTTCCCTCCTCGG
ACCCCAGGCTGGCACCAGCTGCAGCCCCGGCGGGTGTCATTCCGGGGCGAGGCCTCAGAGACTCTGCAGA
GCCCTGGGTATGACCCAAGCCGGCCAGAGTCCTTCTTCCAGCAGAGCTTCCAGAGGCTCAGCCGCCTGGG
CCATGGCTCCTACGGAGAGGTCTTCAAGGTGCGCTCCAAGGAGGACGGCCGGCTCTATGCGGTAAAGCGT
TCCATGTCACCATTCCGGGGCCCCAAGGACCGGGCCCGCAAGTTGGCCGAGGTGGGCAGCCACGAGAAGG
TGGGGCAGCACCCATGCTGCGTGCGGCTGGAGCAGGCCTGGGAGGAGGGCGGCATCCTGTACCTGCAGAC
GGAGCTGTGCGGGCCCAGCCTGCAGCAACACTGTGAGGCCTGGGGTGCCAGCCTGCCTGAGGCCCAGGTC
TGGGGCTACCTGCGGGACACGCTGCTTGCCCTGGCCCATCTGCACAGCCAGGGCCTGGTGCACCTTGATG
TCAAGCCTGCCAACATCTTCCTGGGGCCCCGGGGCCGCTGCAAGCTGGGTGACTTCGGACTGCTGGTGGA
GCTGGGTACAGCAGGAGCTGGTGAGGTCCAGGAGGGAGACCCCCGCTACATGGCCCCCGAGCTGCTGCAG
GGCTCCTATGGGACAGCAGCGGATGTGTTCAGTCTGGGCCTCACCATCCTGGAAGTGGCATGCAACATGG
AGCTGCCCCACGGTGGGGAGGGCTGGCAGCAGCTGCGCCAGGGCTACCTGCCCCCTGAGTTCACTGCCGG
TCTGTCTTCCGAGCTGCGTTCTGTCCTTGTCATGATGCTGGAGCCAGACCCCAAGCTGCGGGCCACGGCC
GAGGCCCTGCTGGCACTGCCTGTGTTGAGGCAGCCGCGGGCCTGGGGTGTGCTGTGGTGCATGGCAGCGG
AGGCCCTGAGCCGAGGGTGGGCCCTGTGGCAGGCCCTGCTTGCCCTGCTCTGCTGGCTCTGGCATGGGCT
GGCTCACCCTGCCAGCTGGCTACAGCCCCTGGGCCCGCCAGCCACCCCGCCTGGCTCACCACCCTGCAGT
TTGCTCCTGGACAGCAGCCTCTCCAGCAACTGGGATGACGACAGCCTAGGCCCTGGACACCCTCCTTGTC
TCGCCTGCCCTCCTGCAGGCCTTCACTCTCCCCTGAGGCTGTCCTGGCCCGGACTGTGGGGAGCACCTCC
ACCCCCCGGAGCAGGTGCACACCCAGGGATGCCCTGGACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215116 representing NM_182687
Red=Cloning site Green=Tags(s)

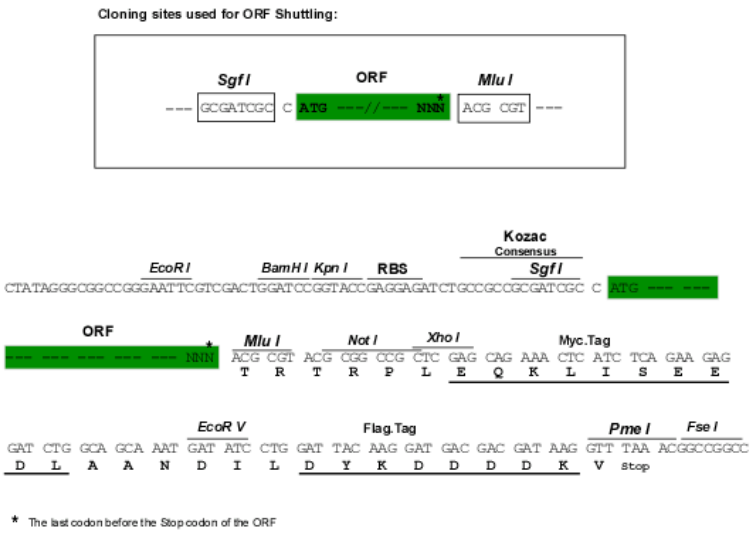
MLERPPALAMPMPTEGTPPPLSGTPIPVPAYFRHAEPGFSLKRPRGLSRSLPPPPPAKGSIPISRLFPPR
TPGWHQLQPRRVSFRGEASETLQSPGYDPSRPESFFQQSFQRLSRLGHGSYGEVFKVRSKEDGRLYAVKR
SMSPFRGPKDRARKLAEVGSHEKVGQHPCCVRLEQAWEEGGILYLQTELCGPSLQQHCEAWGASLPEAQV
WGYLRDTLLALAHLHSQGLVHLDVKPANIFLGPRGRCKLGDFGLLVELGTAGAGEVQEGDPRYMAPELLQ
GSYGTAADVFSLGLTILEVACNMELPHGGEGWQQLRQGYLPPEFTAGLSSELRSVLVMMLEPDPKLRATA
EALLALPVLRQPRAWGVLWCMAAEALSRGWALWQALLALLCWLWHGLAHPASWLQPLGPPATPPGSPPCS
LLLDSSLSSNWDDDSLGPGHPPCLACPPAGLHSPLRLSWPGLWGAPPPPGAGAHPGMPWT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8062_f11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182687

ORF Size: 1440 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_182687.3

RefSeq Size: 2159 bp

RefSeq ORF: 1443 bp

Locus ID: 9088

UniProt ID: Q99640

Cytogenetics: 16p13.3

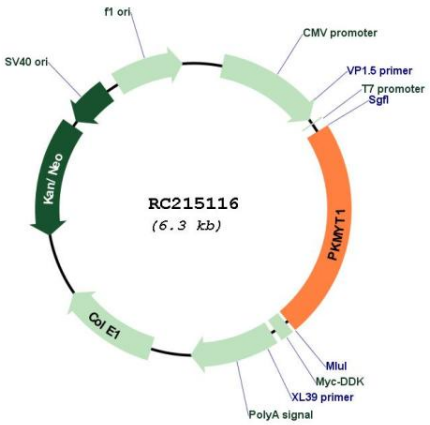
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation

MW: 52 kDa

Gene Summary: This gene encodes a member of the serine/threonine protein kinase family. The encoded protein is a membrane-associated kinase that negatively regulates the G2/M transition of the cell cycle by phosphorylating and inactivating cyclin-dependent kinase 1. The activity of the encoded protein is regulated by polo-like kinase 1. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]

Product images:



Circular map for RC215116