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Product datasheet for MG207845

Pkmyt1 (NM_023058) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pkmyt1 (NM_023058) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pkmyt1
Synonyms:	6230424P17; AW209059; Myt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG207845 representing NM_023058
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACCATGCCCACCGAGGGCACCCCACCACCCCTAAGTGGTACCCCCATCCCAGTTCCAGCTTACTTCC
GACACGCAGAGCCTGGTTTCTCCCTCAAAAGGCCTGGGGGCCTCAGTCGGAGCCTCCCACCTCGGCCCCC
TGCCAAGGGCTGCATCCCTGTCAGCCGTCTATTCCCCCCTCGCACCCCAGGCTGGCACCAGCCCCAGCCC
CGGAGGGTGTCTTTCCTGTGTGAGACCTCAGAGCCCCTGCAGAGTCCTGGGTATGACCCGAGCCGGCCCG
AGTCCTTCTTTCAGCAGAACTTCCAGAGGCTCAGCCGCCTGGGTCATGGCTCATATGGAGAAGTCTTCAA
GGTGCGCTCTAAGGAAGATGGGCGACTCTATGCTGTTAAGCGCTACATGTCGCCATTCCGCGGCCCCAAA
GACCGAACTCGTAAACTGGCTGAGGTAGGTGGCCATGAGAAAGTGGGGCAGCATCCACACTGCGTGAGAC
TGGAGCGGGCCTGGGAGGAGGGTGGCATCCTATACCTGCAGACAGAACTCTGCGGGCCCAGCCTGCAGCA
ACACTGTGAAGCCTGGGGGGCCAGCCTGCCAGAGGCCCAGGTCTGGGGCTACTTGCGGGACATTCTTCTG
GCTCTGGACCATCTACATAGTCAAGGCCTAGTTCACCTTGATGTCAAGCCTGCCAACATCTTCTTGGGTC
CCCGGGGCCGCTGCAAGCTGGGCGACTTTGGACTACTGGTGGAGCTGGGTTCAACCGGTGCTGGCGAGGC
CCAGGAGGGAGATCCTCGCTACATGGCCCCAGAACTGCTGCAGGGCTCTTATGGGACAGCAGCAGATGTG
TTCAGTCTGGGTCTCACCATCTTGGAAGTGGCCTGTAACATGGAACTGCCCCATGGTGGGGAGGGCTGGC
AGCAGCTGCGCCAGGGATACTTGCCCCCTGAGTTCACTGCTGGTCTGTCTTCTGAGCTGCGTTCTGTCCT
CGCCATGATGCTGGAGCCTGACCCCCAGCTTCGAGCCACAGCTGAGGCCCTGTTGGCCTTACCCATGCTG
AGGCAGCCACGTCCCTGGAATGTTCTGTGGTATATGGCTGCAGAAGCCCTAAGTCGAGGCTGGGCCCTGT
GGCAGGCCCTGGTCACTCTGCTCTGCTGGCTCTGGCACGGGCTGGTGCATCCTGCCAGTTGGCTGCAGCC
TCCAGGCCCGCCGGCCACACCACCTGGCTCTCCACCTTGCAGCCCCCTCCTGGACAGCACCCTCTCCAGC
AGCTGGGATAATGACAGCATAGGTCCCTCACTCTCCCCAGAGACCGTCCTGTCCCGGATCACTAGAAGAA
CCTCTACCCCTCGGGGCAGGTACATACCTAGGGATGCCCTGGACCTAACTGATGTGGACTCAGAGCCTCC
AAGAGGTCCCTGCCCCACCTTTGAGCCAAGGAACCTCCTCAGCCTGTTTGAGGACTCCCTAGACCCAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

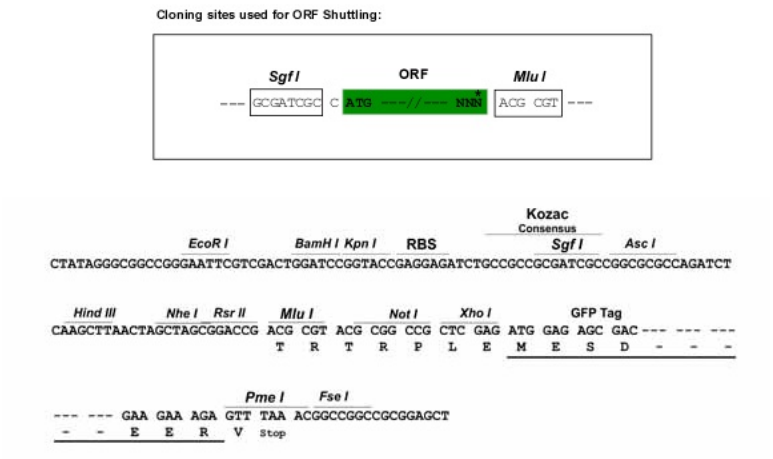
>MG207845 representing NM_023058
Red=Cloning site Green=Tags(s)

MTMPTEGTPPPLSGTPIPVPAYFRHAEPGFSLKRPGGLSRSLPPRPPAKGCIPVSRLFPPRTPGWHQPQP
RRVSFLCETSEPLQSPGYDPSRPESFFQQNFQRLSRLGHGSYGEVFKVRSKEDGRLYAVKRYMSPFRGPK
DRTRKLAEVGGHEKVGQHPHCVRLERAWEEGGILYLQTELCGPSLQQHCEAWGASLPEAQVWGYLRDILL
ALDHLHSQGLVHLDVKPANIFLGPRGRCKLGDFGLLVELGSTGAGEAQEGDPRYMAPELLQGSYGTAADV
FSLGLTILEVACNMELPHGGEGWQQLRQGYLPPEFTAGLSSELRSVLAMMLEPDPQLRATAEALLALPML
RQPRPWNVLWYMAAEALSRGWALWQALVTLLCWLWHGLVHPASWLQPPGPPATPPGSPPCSPLLDSTLSS
SWDNDSIGPSLSPETVLSRITRRTSTPRGRYIPRDALDLTDVDSEPPRGPCPTFEPRNLLSLFEDSLDPA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

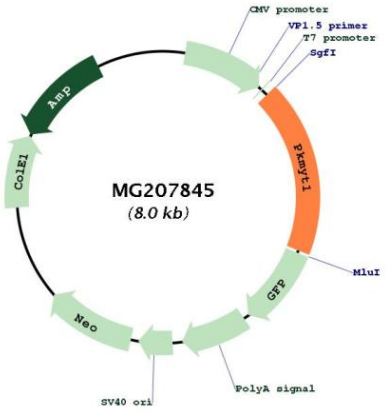


ACCN:	NM_023058
ORF Size:	1470 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_023058.2, NP_075545.2
RefSeq Size:	2040 bp
RefSeq ORF:	1473 bp
Locus ID:	268930
UniProt ID:	Q9ESG9

Cytogenetics: 17 A3.3

Gene Summary: Acts as a negative regulator of entry into mitosis (G2 to M transition) by phosphorylation of the CDK1 kinase specifically when CDK1 is complexed to cyclins. Mediates phosphorylation of CDK1 predominantly on 'Thr-14'. Also involved in Golgi fragmentation. May be involved in phosphorylation of CDK1 on 'Tyr-15' to a lesser degree, however tyrosine kinase activity is unclear and may be indirect. May be a downstream target of Notch signaling pathway during eye development (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG207845