

Product datasheet for **MR205056**

Palm (NM_001161747) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Palm (NM_001161747) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Palm
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR205056 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGTCCTGGCAACAGACACGGCGTCCCAGCAGGAGCGGCTTCAAGCCATCGCTGAGAAGCGTAGGA
AGCAGGCAGAGATTGAGAGCAAGCGGAGACAACCTGGAGGATGACCGAAGACAGCTGCAGTACCTGAAGTC
CAAGGCACTGAGGGAACGCTGGCTGCTGGAGGGGACACTATCCTCAGCCTCAGAGGGCCACGAGGACATG
AGGAAACAGATGCAGGAGGATGAGCAGAAAGCCCAGGGCCTGGAGGAATCCATCACCAGGCTCGAGAAAG
AGATCGATGTTCTGGAGTTTGGAGAGTCAGCCCCAGCTGCCTCAAAGGAGAATTCAGCAGCCCCAGCCC
AGGCCGGCCCCAGTCTGCAAGCCCAGCCAAGGAGGAGCAAAAGTCAGAAACCTTGGTGAACGCTCAGCAG
ACTCCGTTGGGTACCCAAAAGAGAATCGCACGTCCACACCGGTGCGGAGTCCAGGGGATCCACAATGA
TGAAAGCAGTGGTCCATGCCGTGGACGGCATCGCTGAGAACGGGATCCAGCCTCTAAGTTCCTCCGAGGT
GGACGAACTCATTACAAGGCCGATGAGGTCACACTGAGCGAGGCAGGGTCCACAGCTGGCCAGCGGAG
CCTCGGGACTCGCAGAGGATGTCACCAGGACCACGCCGTCCAGAAGGGAGATCACAGGAGTTGAGGCTC
AACCAGGAGAGGCCACATCAGGCCACCCAGGCATCCAGCCGGTCCAGGAGCCCCGGTACCATGGTCTT
CATGGGTTATCAGAACGTGGAAGATGAAGCAGAAACCAAGAAGGTAAGGCTGAGGCTGAGGACACCATCAAG
GCTGAACTGGTGGTGAATGAAGACGCGGCCACGCCAGGGAGCCCCGACCTCTAATGGCAGCGCTGCTG
AGCTCCCGGCCACCAAGGAGGAGAACGAGACGGGGCCACGACCAGCCAGCGACACCCAGGATCTTGA
CATGAAGAAGCCTCGCTGTAGATGTTGTTCTGTCTATG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205056 protein sequence
 Red=Cloning site Green=Tags(s)

MEVLATDTASQERLQAI AEKRRKQAEIESKRRQLEDDRRQLQYLKSKALRERWLLLEGTLSSASEGDDEM
 RKQMQEDEQKARGLEESITRLEKEIDVLEFGESAPAASKENSAAPSPGRPQSASPAKKEEQKSETLVNAQQ
 TPLGTPKENRTSTPVRSPGGSTMMKAVVHAVDGI AENGIQPLSSSEVDEL IHKADEVTLSEAGSTAGPAE
 PRGLAEDVTRTTPSRREITGVEAQPGEATSGPPGIQPGQEPVTVMFMGYQNVDEAETKKVLGLQDTIK
 AELVVIEDAATPREPAPLNGSAAELPATKEENQTGPTTTPSDTQDLDMKKPRCRCCSVM

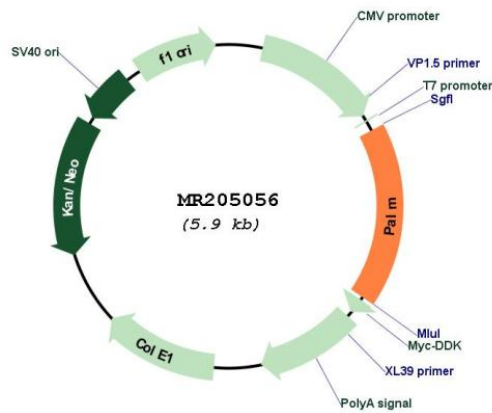
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001161747

ORF Size:	1020 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:	<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_001161747.1 , NP_001155219.1
RefSeq Size:	2519 bp
RefSeq ORF:	1020 bp
Locus ID:	18483
UniProt ID:	Q9Z0P4
Cytogenetics:	10 39.72 cM
MW:	36.7 kDa
Gene Summary:	Involved in plasma membrane dynamics and cell process formation. Isoform 1 and isoform 2 are necessary for axonal and dendritic filopodia induction, for dendritic spine maturation and synapse formation in a palmitoylation-dependent manner.[UniProtKB/Swiss-Prot Function]