

Product datasheet for MR205284

Pomk (NM_029037) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pomk (NM_029037) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pomk
Synonyms:	4930444A02Rik; Sgk196
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205284 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGACAGCAACATGGAACCAGGAATGGTCTCACGCATAGAGAGCTCCCCGGGGCGTGGGGCTGCTGC
TCGCCATGGCCCTTATGAACGTGGCGCTCTACCTCGCTCGATCAGCTTTTCATCTCCCCTGGACGATC
CACCGCGGACTCTAGGCGCTGTCTCCAGGCTACTTCAGAATGGGGCGGATGAGAACTGCTCACGCTGG
TTGTCTGTGAAGAGCTGAGGACAGAAGTCAGGCAGCTGAAGCGCTTGGGGAGGGAGCCGTGAAGAGAG
TCTTTCTGTCTGAATGGAAGGAACACAAAGTCGCTCTCTCCCGGCTCACCGGCTGGAGATGAAGGAGGA
CTTCTGCATGGGCTGCAGATGCTGAAGTCTCTACAGAGTGAGCACGTTGGTACGCTGGTGGGCTACTGT
GAGGAAGATGGCACTATTCTCACCGAATATCACCCCTTAGGTTCCCTTGAGCAACCTGGAAGAAACTAA
ACCTTTCAAAGTACCAAGACGTGAACACTTGGCAGCACAGGCTGCAGCTGGCCATGGAGTACGTCAGCAT
CATTAATATCTGCATCACAGCCCCCTGGGCACGAGGGTCTGTGTGACTCTAACGACCTGCCAAAACA
TTGTCCCAGTACCTGCTAACAAGTAACTTCAGCATTGTGGCAAACGACCTGGACGCGTGGCCCTGGTAG
ACCATGACTCTGGGATACTTATAAAGTGTGGCCACAGAGAGCTCCATGGGGATTTTCGTGGCTCCGGAGCA
GCTGTGGCCCTACGGAGAAGACACGCCCTTCCAAGACGATCTCATGCCTTCCTACAATGAGAAGGTTGAC
ATCTGGAAGATTCCAGATGTCTCCAGTTTCTCTTGGGGCAGTGAAGGGAGTGATATGGTTAGATTCC
ATTTGTTTGATATCCATAAGGCGTGAAGAGCCAGATCCCAGCAAAAAGACCCACTGCTCAGAACGCTGCT
AGACGCTTACCAGAGGGTTTTCCATTCCTCCGAGACACTGTGATGTCGAGACGAAAGAATGCTG

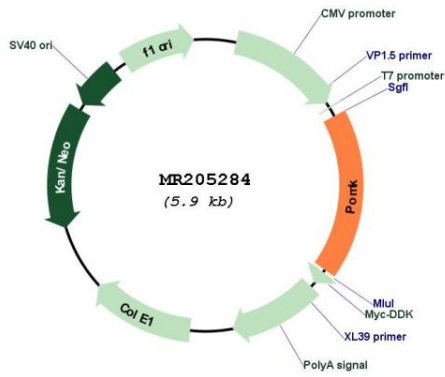
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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:	<u>NM_029037.1</u> , <u>NM_029037.2</u> , <u>NM_029037.3</u> , <u>NM_029037.4</u> , <u>NP_083313.1</u>
RefSeq Size:	3601 bp
RefSeq ORF:	1050 bp
Locus ID:	74653
UniProt ID:	<u>Q3TUA9</u>
Cytogenetics:	8 A2
MW:	40 kDa
Gene Summary:	Protein O-mannose kinase that specifically mediates phosphorylation at the 6-position of an O-mannose of the trisaccharide (N-acetylgalactosamine (GalNAc)-beta-1,3-N-acetylglucosamine (GlcNAc)-beta-1,4-mannose) to generate phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-1,3-N-acetylglucosamine-beta-1,4-(phosphate-6-)mannose). Phosphorylated O-mannosyl trisaccharide is a carbohydrate structure present in alpha-dystroglycan (DAG1), which is required for binding laminin G-like domain-containing extracellular proteins with high affinity. Only shows kinase activity when the GalNAc-beta-3-GlcNAc-beta-terminus is linked to the 4-position of O-mannose, suggesting that this disaccharide serves as the substrate recognition motif (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205284