

Product datasheet for **MC204007**

Pomk (NM_029037) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pomk (NM_029037) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pomk
Synonyms:	4930444A02Rik; Sgk196
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC027296
 ATTTGGTGGTCGCCAGCATTGTTGAAAGAAGGAAGATCCTGTCTGCTGCATGGAGAATGGACTGGAACA
 CAGAAAGACCATGCAGGGTTCGGCTGTAGAAGGCCGGTATCTCCAGAGGCCAGAAGACCCATCAGATCT
 CCTGGGACTGGAGTTATAGAGGTTGTGAGCTGCCATGTTGAACCAAGCAGGTCAC TGAGGGACACAGGCA
 TGTGGATGGAAACCTGCTGGGAGAAAAAGAACTGCTGAAGGGACTGACATGGGACAGCAACATGGAA
 CCAGGAATGGTCTCACGCATAGAGAGCTCCCCGGGCGTGGGGCTGCTGCTGCCATGGCCCTTATGAA
 CGTGGCGCTCTACCTCTGCCTCGATCAGCTTTTTCATCTCCCCTGGACGATCCACCCGGACTCTAGGCGC
 TGTCTCCAGGCTACTTCAGAATGGGGCGGATGAGAAACTGCTCACGCTGGTTGTCTGTGAAGAGCTGA
 GGACAGAAGTCAGGCAGCTGAAGCGCTGGGGAGGGAGCCGTGAAGAGAGTCTTTCTGTCTGAATGGAA
 GGAACACAAAAGTCGCTCTCTCCCGCTCACCAGGCTGGAGATGAAGGAGGACTTCTGCATGGGCTGCAG
 ATGCTGAAGTCTTACAGAGTGAGCACGTGGTCACGCTGGTGGGCTACTGTGAGGAAGATGGCACTATTC
 TCACCGAATATCACCCCTTAGGTTCTTGGCAACCTGGAAGAAACACTAAACCTTTCAAAGTACCAAGA
 CGTGAACACTTGGCAGCACAGGCTGCAGCTGGCCATGGAGTACGTCAGCATCATTAACTATCTGCATCAC
 AGCCCCCTGGGCACGAGGGTCATGTGTGACTCTAACGACCTGCCAAAACATTGTCCAGTACCTGCTAA
 CAAGTAACTTCAGCATTGTGGCAAACGACCTGGACGCGCTGCCCTGGTAGACCATGACTCTGGGATACT
 TATAAAGTGTGGCCACAGAGAGCTCCATGGGGATTTCTGTGGCTCCGGAGCAGCTGTGGCCCTACGGAGAA
 GACACGCCCTTCAAGACGATCTCATGCCTTCTACAATGAGAAGGTTGACATCTGGAAGATTCCAGATG
 TCTCCAGTTTCTCTTGGGGCACGTGGAAGGAGTGATATGGTTAGATTCATTTGTTTATCCATAA
 GGCGTGCAAGAGCCAGATCCCAGCAAAAAGACCCACTGCTCAGAACGTGCTAGACGCTTACCAGAGGGTT
 TTCCATTCACCTCCGAGACACTGTGATGTCGACAGCAAAGAAATGCTGTAAGAATGAGCCATCGAGTGAC
 GTGCTTGACGGCTGAATGGCATCCCAGCTGTTCCGCTCTTGTATGATGGAAGAGCTTTGCATGGATGGATG
 TTGACCTGGCTGTTAGCCACGTAGGCCTCCTACGCTGCTGCATGTTTGTAGTGTCTGCTCTCCT
 GGCAGCCGGACGGAAGCTGCCAAGCGAGAAAGCCTGGCTTCCAGGATGCTCCCTGGTGAAGATGCCAGG
 ATTCTGGATCTGCATAGTTTCAAGGGAGTGATCAAACGGTGACCTTGAAGACATGCTGCCTGCCCTGGTA
 ACTTTTTATAGACTAGTAGGAAACAAATCTTTCGGGGGGGGCAACCCACTAGTTCCTCAGAGACAATTT
 CTTCTCATTAGAAAAGCCCTGTTGGAAGCTGGGGATGTTTTAACTCCGTGGCAGGGCACTTGCTAGTTG
 TGTGCAAAGCCTTGGATCTGACCCATGGCATGTGCACACACACAATGCTCAAAGAAAATCCCAGACGCC
 AGAAGTGTGCCCTTTCTGTCAATAAGGTCATTGTGAGTACCGGAGATGATTTTTTTTATGAAGCGTTT
 ATGCTGACTCCTGCTCACTGAGCCAAGTGTGCATGGTCGTAGCTACTTTGTGGTCTTCTTTCTTCTAC
 CCTACTTCTTCCCTTTCCACCCCTAACACTAGATAGAAGAGAGGAGAGAAAAGGAAAGTGGGCACTGT
 TATATTGTTGGACGACTTCTTGTGATTAAGGGGTGTTAAGTTCCTTGGAGCAATGATCTTTGCTGCCAA
 GATATCTCATTTCTTCTTATTTCTTCTTCCGCCACGACCACTTCAAAACACTGACCAACAGCAAACAAC
 AAACAACCAACAGCAAACAACAACAACCAACAGCAAACAACAACAACCCACCCCGCTCTCGGGGG
 CCCTAGCACTTATGACTTCTGAAAAGTCCCCAGAAATCCAATCATCACACTCACAGAACTGTCTG
 CTGCTGGCAAACTACACCCCTGCTAGAGCATGAGGCAAAATCATAGTCAGCTGCTGTGGACAGTCTGAAG
 CATCCTGGCATCCCACACCTGAGATTAACAACAAAACATTTACCTGTGTTTTGTTTTGTTTTAAGAA
 ACCAAAGTGCACCAAGATAGCATGCTCTTGAGATTGTGACTGTCTAGAGATTTTTGGAACAGCAAGTTGA
 AAGAAGTTTCTTACCTGCCTTGAATGGTCTTTGAACTTCTGCTGACCTGGAGTTTCTGTGTGAATATT
 TCTATCCAGTGTCCCTGTACCGGAAAGTACAAAGTCTGCTGCTGGCTTGCATGCCTGAACACTTTAAA
 AACTGTGGAGCCAGGAATAATGGTACTACCTGTAATCCAGCACCTGGGAGACAGGAGGAACCCAGGAG
 TTCAGGGTTATCCTGGGTATATACCGTACCCTGTCTACCCCAACCCCAATAAAAAACAACAAAGGT
 CAAA AAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
 ACCN: NM_029037
 Insert Size: 1050 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	BC027296 , AAH27296
RefSeq Size:	2885 bp
RefSeq ORF:	1050 bp
Locus ID:	74653
UniProt ID:	Q3TUA9
Cytogenetics:	8 A2
Gene Summary:	<p>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]</p>