

Product datasheet for RN213415

Pomk (NM_001024883) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pomk (NM_001024883) Rat Untagged Clone
Tag: Tag Free
Symbol: Pomk
Synonyms: RGD1310810; Sgk196
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN213415 representing NM_001024883
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGACAGCAACATGGAGCCAGGAATGGTCTTACCCACAGAGAGCTCCCCGGGGCATGGGGCTACTGC
TCGCCATGGCCCTTATGAACGTGGTCTCTACGCTGCCTCGATCATCTTTCATCTCCCCTGGGCGAGC
TACTGAGGACCCTCGGCGCTGCCCTCCGGGTTACTTCAGAAATGGGGCGGATGAGAAACTGCTCGCGCTGG
TTGTCCTGTGAGGAGCTGAGGACGGAAGTCAGGCAGCTGAAGCTCGTTGGGGAAGGAGCCGTGAAGAGAG
TCTTTCTGTCTGAATGGAATGAACACAAAGTCGCTCTCTCCCGGCTCACCAGGCTGGAATGAAGGAGGA
CTTCTACATGGACTGCGGATGCTGACATCGCTACAGAGCCAGCAGTGGTCACTGGCCGGCTTCTGT
GAGGAAGACGGCACGATTCTCACCGAGTACCACCCCTTAGGTTCCCTGAGCAACCTGGAAGAAACTAA
ACCTTTCAAAGTACCGAGACGTGAACACTTGGCAGCACAGGCTGAGGCTAGCCGTGGAGTACGTCAGCAT
CATTAACCTACCTGCACCACAGCCCCCTGGGCACGCGGGTCACTGTGTGACTCTAACGACCTGCCAAAACG
TTGTCCCAGTACCTGCTGACAAGTAACTTCAGCATTGTGGCTAACGACCTGGACGCGCTGCCCTGGTGG
ACCACGGCTTAGGGTACTTGTGAAGTGTGGCCACAGGGAGCTCCACGGGATTTCTGTGGCCACAGAGCA
GCTGTGGCCCTACGGAGAAGACACACCCTTCCAAGATGACCTCATGCCCCCTATGATGAGAAGATTGAC
ATCTGGAAGATTCGGACGCTCTCCAGTTTCTTCTGGGGCACGTGGAAGGAGTGACATGGTTAGATTCC
ATTTGTTTGATATCCATAAGGCGTGAAGAACCAGTTCCCGCAGAGAGACCCACCGCTCAGAAGTTCT
AGACGCTACCGAAGGTTTTCCACTCCCTCCGAGATACCGTGTGTCGACAGACAAAGAAATGCTG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001024883



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Insert Size:	1050 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001024883.1</u> , <u>NP_001020054.1</u>
RefSeq Size:	2967 bp
RefSeq ORF:	1050 bp
Locus ID:	306549
UniProt ID:	<u>Q4V8A9</u>
Cytogenetics:	16q12.4
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]