

Product datasheet for **RR213415**

Pomk (NM_001024883) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pomk (NM_001024883) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pomk
Synonyms:	RGD1310810; Sgk196
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR213415 representing NM_001024883 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGGACAGCAACATGGAGCCAGGAATGGTCTTACCCACAGAGAGCTCCCCGGGGCATGGGGCTACTGC
TCGCCATGGCCCTTATGAACGTGGTCTCTACGCTGCCTCGATCATCTTTCATCTCCCCTGGGCGAGC
TACTGAGGACCCTCGGCGCTGCCCTCCGGTTACTTCAGAATGGGGCGGATGAGAACTGCTCGCGCTGG
TTGTCTGTGAGGAGCTGAGGACGGAAGTCAGGCAGCTGAAGCTCGTTGGGAAGGAGCCGGAAGAGAG
TCTTTCTGTCTGAATGGAATGAACACAAAGTCGCTCTCTCCCGGCTCACCAGGCTGGAATGAAGGAGGA
CTTCTACATGGACTGCGGATGCTGACATCGCTACAGAGCCAGCACGTCGGTCACTGGCCGGCTTCTGT
GAGGAAGACGGCACGATTCTCACCGAGTACCACCCCTTAGGTTCCCTGAGCAACCTGGAAGAACTAA
ACCTTTCAAAGTACCGAGACGTGAACACTTGGCAGCACAGGCTGAGGCTAGCCGTGGAGTACGTCAGCAT
CATTAACACCTGCACCACAGCCCCCTGGGCACGCGGGTCACTGTGTGACTCTAACGACCTGCCAAAACG
TTGTCCCAGTACCTGCTGACAAGTAACCTCAGCATTGTGGCTAACGACCTGGACGCGCTGCCCTGGTGG
ACCACGGCTCTAGGGTACTTGTGAAGTGTGGCCACAGGGAGCTCCACGGGATTTCTGTGGCCCCAGAGCA
GCTGTGGCCCTACGGAGAAGACACACCCTTCCAAGATGACCTCATGCCCCCTATGATGAGAAGATTGAC
ATCTGGAAGATCCGGACGCTCTCAGTTTCTTCTGGGGCACGTGGAAGGGAGTGACATGGTTAGATTCC
ATTTGTTTGATATCCATAAGGCGTGAAGAACCAGTTCCCGCAGAGAGACCCACCGCTCAGAACGTTCT
AGACGCTACCAGAAGGTTTTCCACTCCCTCCGAGATACCGTGATGTCGACAGACGAAGAATGCTG

ACGGTACGGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR213415 representing NM_001024883
 Red=Cloning site Green=Tags(s)

MGQQHGARNGLTHRELPRGMGLLLAMALMNVLYVCLDHLFISPGRATEDPRRCPPGYFRMGRMRNCSRW
 LSCEELRTEVRQLKLVGEGAVKRIVFLSEWNEHKVALSRLTRLEMKEDFLHGLRMLTSLQSQHVVTLAGFC
 EEDGTILTEYHPLGSLNLEETLNL SKYRDVNTWQHRLRLAVEYYSIINYLHHSPLGTRVMCDSNDLPKT
 LSQYLLTSNFSIVANDLDALPLVDHGSRVLVKCGHRELHGDFVAPEQLWPYGEDTPFQDDLMPYDEKID
 IWKIPDVSSFLLGHVEGSDMVRFHFLFDIHKACKNQFPAERPTAQNVLDAYQKVFHSLRDTVMSQTKEML

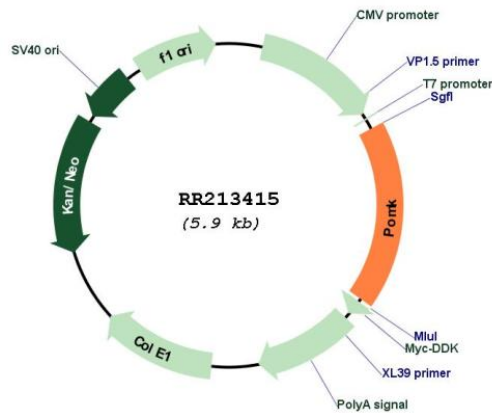
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001024883

ORF Size: 1047 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_001024883.1 , NP_001020054.1
RefSeq Size:	2967 bp
RefSeq ORF:	1050 bp
Locus ID:	306549
UniProt ID:	Q4V8A9
Cytogenetics:	16q12.4
MW:	40.1 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]