

Product datasheet for RC235266

PASK (NM_001252120) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PASK (NM_001252120) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PASK
Synonyms:	PASKIN; STK37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC235266 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGAGGACGGGGCTTAACAGCCTTTGAAGAGGACCAGAGATGCCTTTCCAGAGCCTCCCCTTGCCAGTGTCTGAGAGGGCCAGCTGCACAGACCAGTGTGAGCCAGCAGGTGCTTTTCCCTCAGCCACAGACACCTGAGCAGAAGGAATGGGCTTTCCAGACTCTGCCAGAGCAGGACAGCGCTCTCTGAAGACAGATGGAGCTCCTATTGTCTATCACTGGCTGCCAGAATATTTGTACAAGTAACTGCACTGCCCTGCTGCCCTGAGCACACGGACCCGTCCGAACCGCGGGCAGTGTGTCCTGCTGCCCTGCTGCGGGGACTGTCTCAGGTGGTCTCACCTCTGTTCCGGCCCTGTGTGCAACCCTAACAAAGGCCATCTTACGGTGGATGCCAAGACCACAGAGATCCTGGTTGCTAACGACAAAGCTTGCGGGCTCCTGGGGTACAGCAGCCAGGACCTGATTGGCAGAAGCTCACGCAGTTCTTTCTGAGGTCAGATTCTGATGTGGTGGAGGCCCTCAGCGAGGAGACATGGAGGCCAGCGCCACGCTGCGGTGGTGTGGTGGCAGCGTGGTGGACATCATCAGCCGTAGTGGGGAGAAGATTCCAGTGTCTGTGGATGAAGAGGATGCGGCAGGAGCGCCGCTATGCTGCGTGGTGGTCTGGAGCCGTGGAGAGGGTCTCGACCTGGTTCGCTTTCCAGAGCGATGGCACCGTCACGTCATGTGACAGTCTTTGTCTCATCTTACGGGTACGTGTCTGGGAGGACGTGGCTGGGCAGCATATCACAGACCTGATCCCTTGTGCGACTCCCTCCTTGCCAGCACATCCCAAGAATCTCAAGATTCAGAGGCTGTTGGAAGAGCCAGGACCGTACCACCTTCCCTCTGAGCTTAAAGCTGAAATCCCAACCAGCAGCGAGGAGGCCACCCGGTGAGGCGGCCCTGTGAGCGGCTACCGGCATCTGTCTGGGTGTTCTGCACCATCAGTGGCCTCATCACCCTCCTGCCGATGGGACCATCCACGGCATCAACCACAGCTTCGCGCTGACACTGTTGGTTACGGAAAGACGGAGCTCCTGGCAAGAATATCACTTTCTGATTCTGGTTTCTACAGCTACATGGACCTTGCGTACAAAGCTCATTACAGCTCCCAGACCTGGCCAGCTGCCTGGACGTGGCAATGAGAGTGGGTGTGGGGAGAGACCTTGGACCCGTGGCAGGGCCAGGACCCAGCTGAGGGGGCCAGGATCCAAGGATTAATGTCGTGCTTCTGGTGGCCAGTGTGCCCCGAGATGAGATCCGGAAGCTGATGGAAGCCAAGACATCTTACCCGGACTCAGACTGAGCTGATTGTGGAGGCCAGCTCCTTCTGCCTCTCACCTCAGCCTGCTCCAGGGGTGGAC



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AATGTCCCAGAAGGAAGCCTGCCAGTGCACGGTGAACAGGCGCTGCCAAGGACCAGCAAATCACTGCCT
 TGGGGAGAGAGGAACCTGTGGCAATAGAGAGCCCCGGACAGGATCTTCTGGGAGAAAAGCAGGTCTGAACC
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 GATGCTGGCATGTGTGGCCTGTGTGAGAAGGCCAGCTAGAGCGGATGGGAGTCAGTGGTCCCAGCGTT
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 GTACTGTGACCCGAAGTCTCATGGGAATCCCTACAGAGGGCCGAGCTGGAGATGTGGTCTCTGGGA
 GTCACTCTGTACACGCTGGTCTTTGAGGAGAACCCTTCTGTGAGCTGGAGGAGACCGTGGAGGCTGCCA
 TACACCCGCCATACCTGGTGTCCAAAGAACTCATGAGCCTTGTGTCTGGGCTGCTGCAGCCAGTCCCTGA
 GAGACGCACACCTTGGAGAAGCTGGTGACAGACCCGTGGGTAACACAGCCTGTGAATCTTGCTGACTAT
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 GGAACAGGAGCCTGAGTGTGTGGCCAGGCTCAGGAGCTTTGTGGGGGCCCGTTCCAGGCGAGGCTCC
 TAATGGCCAAGGCTGTTTGCATCCCGGGATCCCCGTCTGCTGACCAGC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235266 protein sequence
 Red=Cloning site Green=Tags(s)

MEDGGLTAFEEDQRCLSQLPLPVSAEGPAAQTAEPSRSFSSAHRHLRRNGLSRLCQSRTALSEDRWS
 SYCLSSLAQNICTSKLHCPAAPEHTDPSEPRGSVSCCSLLRGLSSGWSSPLLPAVPCNPNKAIFTVDAK
 TTEILVANDKACGLLGYSSQDLIGQKLQFFLRSDSDVVEALSEEHMEADGHAAVVFGTVVDIISRSGEK
 IPVSVWMKRMQRQERRLCCVVVLEPVERVSTWVAFQSDGTVTSCDSLFAHLHGYSVGEDVAGQHITDLIPS
 VQLPPSGQHIQPKNLKIQRVSVGRARDGTTFFPLSLKLSQPSSEEATTGEAAPVSGYRASVWVFTISGLIT
 LLPDGTIHGINHSFALTLFGYGKTELLGKNITFLIPGFYSYMDLAYNSSLQLPDLASCLDVGNEGCGER
 TLDPWQGGQDPAEGGQDPRINVVLAGGHVVRDEIRKLMESQDIFTGTQTELIAGGQLLSCLSPQPAPGVD
 NVPEGSLPVHGEQALPKDQQITALGREEPVAIESPGQDLLGESRSEPVDVKPFASCEDSEAPVPAEDGGS
 DAGMCGLCQKAQLERMVSGPSGSDLWAGAAVAKPQAKGQLAGGSLLMHCPCYGEWGLWWRSDLAPSP
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 GRDLGCGCTGSSSACYALATDLPGGLEAVEAQEVDVNSFSWNLKELFFSDQTDQTSNCSCATSELRETP
 SSLAVGSDPDVGSLEQEGSCVLDRELLLTGTVDLGGRRRFRESCVGHDPTEPLEVCLVSSEHYAASD
 RESPGHVPSTLDAGPEDTCSAEPRNLNVQVTSTPVIIVMGAAGLQREIQEGAYSGCYHRDGLRLSIQF
 EVRRVELQGTPPLFCWLVKDLLHSQRDSAARTRFLASLPGSTHSTAELTGPSLVEVLRARPWFEEPP
 KAVELEGLAAACEGEYSQKYSTMSPLGSGAFGFVWTAVDKEKNKEVVVKFKKKEKVLKEDCWIEDPKLGKVT
 LEIAILSRVEHANIIVKLDIFENQGFQLVMEKHGSLDLFAFIDRHPRLDEPLASYIFRQLVSAVGYLR
 LKDIHRDIKDENVIAEDFTIKLIDFGSAAYLKRGKLFYTFCTIEYCAPEVLMGNPYRGPPELMMWSLG
 VTLTYLVEENPFCELEETVEAAIHPPYLVSKELMSLVGGLLQVPERRTTLEKLVDPWVTQPVNLADY
 TWEEVFRVNPESGVLSAASLEMGNRSLSDVAQAQELCGGPVPGEAPNGQGLHPGDPRLTTS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6220_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

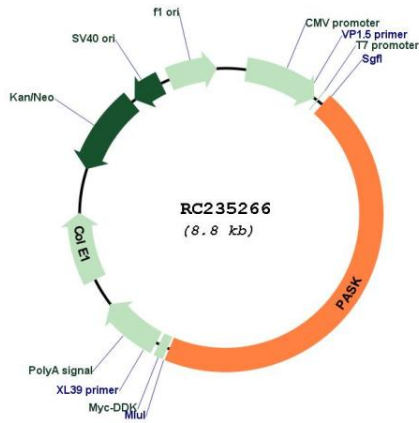


ACCN: NM_001252120

ORF Size: 3969 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_001252120.1 , NP_001239049.1
RefSeq Size:	4741 bp
RefSeq ORF:	3972 bp
Locus ID:	23178
UniProt ID:	Q96RG2
Cytogenetics:	2q37.3
Protein Families:	Druggable Genome, Protein Kinase, Stem cell - Pluripotency
MW:	142.9 kDa
Gene Summary:	This gene encodes a member of the serine/threonine kinase family that contains two PAS domains. Expression of this gene is regulated by glucose, and the encoded protein plays a role in the regulation of insulin gene expression. Downregulation of this gene may play a role in type 2 diabetes. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RC235266