

Product datasheet for **RG235268**

PASK (NM_001252119) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PASK (NM_001252119) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PASK
Synonyms: PASKIN; STK37
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235268 representing NM_001252119
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGAGGACGGGGCTTAACAGCCTTTGAAGAGGACCAGAGATGCCTTTCCAGAGCCTCCCCTTGCCAG
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 CCTGAGCAGAAGGAATGGGCTTTCCAGACTCTGCCAGAGCAGGACAGCGCTCTCTGAAGACAGATGGAGC
 TCCTATTGTCTATCACTGGCTGCCAGAATATTTGTACAAGTAACTGCACTGCCCTGCTGCCCTG
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 GTGGTCTCACCTCTGCTCCGGCCCTGTGTGAACCCATAACAAGGCCATCTTACGGTGGATGCCAAG
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 GGAGGCCGACGGCCACGCTGCGGTGGTGTGGCACGGTGGTGGACATCATCAGCCGTAGTGGGGAGAAG
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 CCGTGGAGAGGGTCTCGACCTGGGTGCTTTCCAGAGCGATGGCACCGTCACGTCATGTGACAGTCTTT
 TGCTCATCTTACGGGTACGTGTCTGGGAGGACGTGGCTGGGCAGCATATCACAGACCTGATCCCTTCT
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AATGTCCCAGAAGGAAGCCTGCCAGTGCACGGTGAACAGGCGCTGCCAAGGACCAGCAAATCACTGCCT
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CCCCGTTCCAGGCGAGGCTCCTAATGGCCAAGGCTGTTTGCATCCCGGGATCCCCGCTGCTGACCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG235268 representing NM_001252119
 Red=Cloning site Green=Tags(s)

MEDGGLTAFEEDQRCLSQLPLVSAEGPAAQTAEPSRSFSSAHRHLSRRNGLSRLCQSRTALSEDRWS
 SYCLSSLAQNICTSKLHCPAAPEHTDPSEPRGSVSCSLLRGLSSGWSSPLLPAVPCNPNKAIFTVDAK
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 IPVSVWMKRMQRQERRLCCVVVLEPVERVSTWVAFQSDGTVTSCDSLFAHLHGYVSGEDVAGQHITDLIPS
 VQLPPSGQHIKPKNLKIQRVSVGRARDGTTFFPLSLKLSQPSSEEATTGEAAPVSGYRASVWVCTISGLIT
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 SSLAVGSDPDVGLQEQQSCVLDRELLLTGTVDLGGRRRFRESCVGHDPTEPLEVCLVSSEHYAASD
 RESPGHVPSTLDAGPEDTCSAEPRNLNVQVTSTPVIVMRGAAGLQREIQEGAYSGSCYHRDGLRLSIQF
 EVRRVELQGTPPLFCWLVKDLLHSQRDSAARTRFLASLPGSTHSTAELTGPSLVEVLRARPFWEPP
 KAVELEGLAAACEGEYSQKYSTMSPLGSGAFGFVWTAVDKEKNKEVVVKFKKKEKVLKEDCWIEDPKLGKVT
 LEIAILSRVEHANIIVKLDIFENQGGFFQLVMEKHGSLDLFAFIDRHRPLDEPLASYIFRQVRAGQSRLV
 SAVGYLRKLDIIHRDIKDENIVIAEDFTIKLIDFGSAAYLERGKLFYTFCGTIEYCAPEVLMGNPYRGE
 LEMWSLVGTYLTVFEENPFCELEETVEAAIHPPYLVSKEMLSLVSGLLQVPERRTTLEKLVTDPWVTVQ
 PVNLADYTWEVFRVNPESGVLSAASLEMGNRSLSDVAQAQELCGGPVPGAPNGQGCLHPGDPRLTTS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

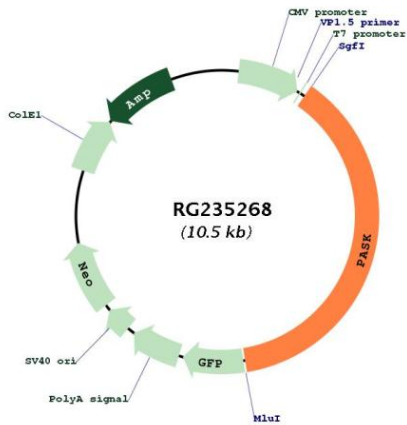


ACCN: NM_001252119

ORF Size: 3990 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_001252119.2
RefSeq Size:	4609 bp
RefSeq ORF:	3993 bp
Locus ID:	23178
UniProt ID:	Q96RG2
Cytogenetics:	2q37.3
Protein Families:	Druggable Genome, Protein Kinase, Stem cell - Pluripotency
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 RG235268