OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC127392

PASK (NM_015148) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PASK (NM_015148) Human Untagged Clone
Tag:	Tag Free
Symbol:	PASK
Synonyms:	PASKIN; STK37
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_015148, the custom clone sequence may differ by one or more nucleotides

ATGGAGGACGGGGGCTTAACAGCCTTTGAAGAGGACCAGAGATGCCTTTCCCAGAGCCTCCCCTTGCCAG
TGTCAGCAGAGGGCCCAGCTGCACAGACCACTGCTGAGCCCAGCAGGTCGTTTTCCTCAGCCCACAGACA
CCTGAGCAGAAGGAATGGGCTTTCCAGACTCTGCCAGAGCAGGACAGCGCTCTCTGAAGACAGATGGAGC
TCCTATTGTCTATCATCACTGGCTGCCCAGAATATTTGTACAAGTAAACTGCACTGCCCTGCTGCCCCTG
AGCACACGGACCCGTCCGAACCGCGGGGCAGTGTGTCCTGCTGCTCCCTGCTGCGGGGACTGTCCTCAGG
GTGGTCCTCACCTCTGCTTCCGGCCCCTGTGTGCAACCCTAACAAGGCCATCTTCACGGTGGATGCCAAG
ACCACAGAGATCCTGGTTGCTAACGACAAAGCTTGCGGGCTCCTGGGGGTACAGCAGCCAGGACCTGATTG
GCCAGAAGCTCACGCAGTTCTTTCTGAGGTCAGATTCTGATGTGGTGGAGGCCCTCAGCGAGGAGCACAT
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TGCTCATCTTCACGGGTACGTGTCTGGGGAGGACGTGGCTGGGCAGCATATCACAGACCTGATCCCTTCT
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GGGACGGTACCACCTTCCCTCTGAGCTTAAAGCTGAAATCCCAACCCAGCAGCGAGGAGGCGACCACCGG
TGAGGCGGCCCCTGTGAGCGGCTACCGGGCATCTGTCTGGGTGTTCTGCACCATCAGTGGCCTCATCACC
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CGGAGCTCCTGGGCAAGAATATCACTTTCCTGATTCCTGGTTTCTACAGCTACATGGACCTTGCGTACAA
CAGCTCATTACAGCTCCCAGACCTGGCCAGCTGCCTGGACGTCGGCAATGAGAGTGGGTGTGGGGAGAGA
ACCTTGGACCCGTGGCAGGGCCAGGACCCAGCTGAGGGGGGCCAGGATCCAAGGATTAATGTCGTGCTTG
CTGGTGGCCACGTTGTGCCCCGAGATGAGATCCGGAAGCTGATGGAAAGCCAAGACATCTTCACCGGGAC
TCAGACTGAGCTGATTGCTGGAGGCCAGCTCCTTTCCTGCCTCTCACCTCAGCCTGCTCCAGGGGTGGAC
AATGTCCCAGAAGGAAGCCTGCCAGTGCACGGTGAACAGGCGCTGCCCAAGGACCAGCAAATCACTGCCT
TGGGGAGAGAGGAACCTGTGGCAATAGAGAGCCCCGGACAGGATCTTCTGGGAGAAAGCAGGTCTGAACC

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AGTGGATGTGAAGCCATTTGCTTCCTGCGAAGATTCTGAAGCTCCAGTCCCAGCTGAGGATGGGGGCAGT
GATGCTGGCATGTGTGGCCTGTGTCAGAAGGCCCAGCTAGAGCGGATGGGAGTCAGTGGTCCCAGCGGTT
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015148 unedited
CGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCTGTGCGATTGGTCGGTGGGATA
AAAGCGCGGAAGGGCTCCTTTCCGTGGTGTGTAGCCGGCTTGGCGTGACCCTCGCCTGAT
CCAGTTGTTAGAGTTGGAAGCTTGGCAGTTGGCCTCCCTTCTTCCCATGGAGGACGGGGG
CTTAACAGCCTTTGAAGAGGACCAGAGATGCCTTTCCCAGAGCCTCCCCTTGCCAGTGTC
AGCAGAGGGCCCAGCTGCCAGACACTGCTGACCCACAGGTCGTTTCTCACCCACAACCCT
GACAGAAGATGGCTTTCAACTCTGCAGACAGGCGGCGCTTTGAAACAGATGGACTCTATT
GCTATCATCACTGGCTGCCAGAATATTTGTCAAGTAACTGCCTGCCTGCTGCCCTGNCAC
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GTCCTCACCTCTGTTCCGGCNCTGTGTCAACCCTAACAGGCATCTTCCGGTGATGCCAGA
CACAGAATCCTGTTGCTAACACAAGCTTGCGGCTCCTGGGTACAGCAGCCGGACCTGATT
GCCAGAACTCACGCAGTTCTTCTGAGGTCNATTCTGATGTGGTGAGGCCCTCAGCGAGGA
CACATGGAGGCCAGGCCACGCTGCGTGGTGTTGGCACGTGTGACATATCACCGTATGGGA
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015148 unedited
CCAGAGCCAGGAGAGGCACTGGGGAGGGGTCACAGGGATGCCACCCGGGATCTGTTCAGG
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AAAGGTGCTTTAATTTGAAAAGCATTTGAGGAAATAAATTAATGAAATAGTCCGGCCATT
TGACTAACCAGTTCTACAAATTTCACATATCCGTCACTCAGATGAGCATATACCAAGTCA
GAGGAAACAAAACATGCACATATACAAAAGTAGAAAGAGAAAACACTCATGCCTTCAGAA
GTTCACAAATTAAAAGCCCTTTAATAATATAAAACAGTTGAACACTGGAATGTTTTTTTC
TAGGTCATGAAAAAAGTGAATTCCAAATCTATGTAATAAATCTAAAATAATACAGCATCA
CTGTCTTCTGTTCTGGTGTTTATCAAACCTGCACATGAGTTTTTAGAAGGTGAATTGGGG
ATGCTTCAGAATGTATTTTCTCCAAACAGATGGAGCCTGAAAACTGTGTGATTTTCCAAA
CCAAGTGGAGAAAAGCAGGAAGAAATTGGTGTTTAGCTGGTCAGCAGACGGNGATCCCCG
GGATGCAAACAGCCTTGGCCATTAGGAGCCTCGCCTGGAACGGGGCCNCCACAAAGCTCC
TGAGCCTGGGCCACATCACTCAGGCTCCTGTTCCCCATCTCCAGGCTCGCAGCGGACAGA
ACTCCACTTTCTGGCTTGTTTAACTCAAACACCTTCTTCCATTGTTAGTCAGCAAGAATC
ACAGGGCTGGGTTACCCACGGGGTCGGCCACCAGCTTTCTCCAGGGGG

Restriction Sites: Please inquire

ACCN: NM_015148

Insert Size: 5100 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:
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_015148.2, NP_055963.2

RefSeq Size: 4530 bp

RefSeq ORF: 3972 bp

Locus ID: 23178

UniProt ID: Q96RG2

Cytogenetics: 2q37.3

Domains: S_TKc

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]
Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region, but maintains the reading frame, compared to variant 1. Variants 2 and 3 encode the same isoform (2), which is shorter than isoform 1.