

Product datasheet for **RC403206**

PASK (NM_015148) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	PASK (NM_015148) Human Mutant ORF Clone
Mutation Description:	R1267X
Affected Codon#:	1267
Affected NT#:	3799
Nucleotide Mutation:	PASK Mutant (R1267X), Myc-DDK-tagged ORF clone of Homo sapiens PAS domain containing serine/threonine kinase (PASK) as transfection-ready DNA
Effect:	Potential protein deficiency
Symbol:	PASK
Synonyms:	PASKIN; STK37
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_015148
ORF Size:	3798 bp
Restriction Sites:	SgfI-MluI
ORF Nucleotide Sequence:	>RC403206 representing NM_015148 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RC403206 representing NM_015148
 Red=Cloning site Green=Tags(s)

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TWEEVF
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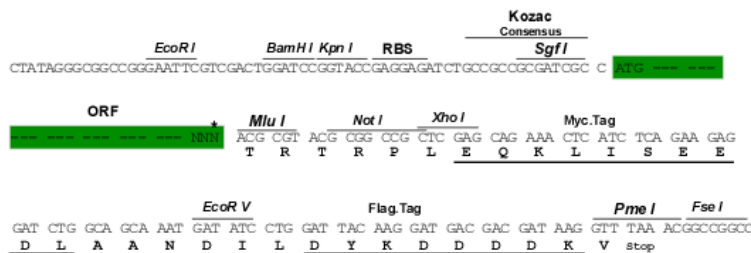
SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

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).
RefSeq:	NP_055963
RefSeq Size:	3798 bp
RefSeq ORF:	3972 bp
Locus ID:	23178
Cytogenetics:	2q37.3
Domains:	S_TKc
Protein Families:	Druggable Genome, Protein Kinase, Stem cell - Pluripotency
MW:	139.3 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]