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Product datasheet for SC212509

BRSK2 (NM_003957) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	BRSK2 (NM_003957) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	BRSK2
Synonyms:	C11orf7; PEN11B; SAD1; SADA; STK29
ACCN:	NM_003957
Insert Size:	1730 bp

View online »

Insert Sequence:

>SC212509 3'UTR clone of NM_003957
The sequence shown below is from the reference sequence of NM_003957. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TCCAAATGTGGAATTATCCCGAAAAGTTAACATGTCACCTCCACGAGGCCATCCTCTGTGACCGAAGGC
AGCTGCTGCGGACCCGCCCTCCCTCCGCTCCTGCTGTTGCTGCCGGGCAGTGAGGCCCAGCCCAGCGCC
CCGTCCACCCCGCGGCAGCTCCTCGCCTCAGCTCCGCACGGCCCGTGGGAGGAAGGCCAGGCTCGGGGG
AGCCTCCTCCAGCCCGGCCGACCCGGACTCCCGGTCACCTGACCCCTCAGCAAGAACAGCCTGCCTGGT
GGCCTTCTGGGGCCAGGACCCCTGGTGGGCAACGTAGCCACAGGAACAGGCCCCGTCCACCGCCTCCAC
GCCGCACCTGGAGGCCTCCTCGCAGGCCCGTGCCCCGCCTCCCTGGCTGCGCCGCCTCCGTGTAGTCTT
GGCCTCCTCAGGCTGCCTCCCGTCCTCTCGTCTCACCCGCGCCTCCCTTGCCTCATCTGGGGCGGCTGT
GGGCTCTGGCGCTCCTCTCTGGCTGAGGTGGAAACAGAGACACCCTGCGGCACCAGAGCCTTCCCAGCA
GGCCAGGCCGCTGGGCTGGGATCAGTGTTATTTATTTGCCGTTTTAATTTATGGATTCTCCGCACCTCT
GTTCAGGGAAGGGCGGCGGCCACATCCCCTGCCGTCTGCGTGTCTCAGGCAGTGGGGGGGCTGGGGCCA
GGGCGCCCTCTGAGGACAGAGCTGGTGGGGCGCGGGGGGGCTGGCGAGCTACTGTAAACTTTAAAGAAT
TCCTGCAAGATATTTTTATAAACTTTTTTTTCTTGGTGGTTTTTGGAAAAGGGTGTGGGGGTGGGGGCG
CCGCTGGGGCAGGGCCAGGTTTTGTGTTTTAGTCCCTTGCTCCTGCTTCTTTCTACACACACATCTAAA
GACGGTGCGGCTCGCTCTGTCATGGGTTCCGTCTCTCTGTGGAGAAGCAGCTCCACCTCTGGGGGGGCT
CGGGGCAGAGGGGCGGTGTCTTGTAGCGGGCGGCAGCGCCAGCGCCCCTCTGTCAGGCTGGGGCAATCT
TGGTTTTGTGTCCAAAGGTGAAGGGGTAGGAGGAGGGCCCTCAGCTGGCCCTCCCCACACACAGGACGG
CAGGGGCACTGTGAGGCTTTTCTTATTAAAATGAAAAAATTGAAAAAAAAGGACAAAGAGTCGGTGGCG
CTCCTCTGCAGGGCGTTCTGTGCAGAGCGAGGCCCAGGGCGCAGCCCTCAGAGGGCTGCAGGCCCACCC
TGCCCAGTGCCCGCCGCCGTGCTTCACCCCAGCTCCAGCTTCTGTGTTCCCTTCCGCCCATGTGCCCAG
CCCTCCCAGGCGGGCACAGCCCGGGTGCGGCGGCCGTGGGGGACGGCGGGTCTGATGCATGCCTCTGCC
ATGGAGTCGTCTGTCTGCTTCGGTGCCTGCCCCTGCCTCCCACCCACCTCGTGTATAGATTTTAACGCT
TCTGTTAACATTAGACCTCTGCCACAGGCTGGGATTTCTATACATAAGAACAAAAGCAAACACCTAGGA
CAGCAAACGCCAGGCGGTACAGGCGGGAAGGGGCTCTCCACGGAGATCGAGGACACGAAGCAAACTGCC
TCTTGCTTGCCTTCCCCTTTTGTGCTTCGGACACACGCGGACTCCAGCAGGCGCCACGGAAATGGGCAA
GCCCCTGCAGTGTACCCCTGTCATAACTGTGAGCAGCTGCAGCTCCGGAACAATAAATCCCTTCCGCAA
AGACA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: NM_003957.4

Summary: Serine/threonine-protein kinase that plays a key role in polarization of neurons and axonogenesis, cell cycle progress and insulin secretion. Phosphorylates CDK16, CDC25C, MAPT/TAU, PAK1 and WEE1. Following phosphorylation and activation by STK11/LKB1, acts as a key regulator of polarization of cortical neurons, probably by mediating phosphorylation of microtubule-associated proteins such as MAPT/TAU at 'Thr-529' and 'Ser-579'. Also regulates neuron polarization by mediating phosphorylation of WEE1 at 'Ser-642' in postmitotic neurons, leading to down-regulate WEE1 activity in polarized neurons. Plays a role in the regulation of the mitotic cell cycle progress and the onset of mitosis. Plays a role in the regulation of insulin secretion in response to elevated glucose levels, probably via phosphorylation of CDK16 and PAK1. While BRSK2 phosphorylated at Thr-174 can inhibit insulin secretion (PubMed:22798068), BRSK2 phosphorylated at Thr-260 can promote insulin secretion (PubMed:22669945). Regulates reorganization of the actin cytoskeleton. May play a role in the apoptotic response triggered by endoplasmic reticulum (ER) stress. [UniProtKB/Swiss-Prot Function]

Locus ID: 9024

MW: 60.3