

Product datasheet for **SC206670**

BRSK1 (NM_032430) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones

Symbol: BRSK1

Synonyms: hSAD1

Mammalian Cell Neomycin

Selection:

Vector: pMirTarget (PSI00062)

ACCN: NM_032430

Insert Size: 524 bp

Insert Sequence: >SC206670 3'UTR clone of NM_032430
The sequence shown below is from the reference sequence of NM_032430. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC
CTGGCCACCAACGGGACCCCTCTGCCCTGACCCACGGGGCCGGGAGGGAGGGGACCCCTCCACCC
CCCTTCCGTGCCCCCACTGTGAATCTGTAAATAAGGCCCAAGGAACATGTCGGGAGGGGGTGGACA
CAAAAACCGCCTTGCCCTGCAGGGATGGGGCTCCACAGCCGTGCCCACTGGGGGTGGTTCTAGGGG
AACAGGGGGCGGGGAGCTGTTTCTATTTTATTGATTATTTATTATTTTATTATTTATTATTTATTGATCAATC
TCTCTGCGGGGTGGGGTGGGGGAGGGACGGGAGCTGGTTGGGGTGGCTTAGCAGATCCGGACAGGGCCC
TCTGTCCCTGTGTGTCCTCCCAACCCCTCTTCCGGGGCCCTCCTCCCTGGTCTCCCCCAGACCT
TCTGTACGGATTTGCTCTCCGAAGGAATTCTGGTTTCGCGTGATCCTGCCTGCGTCCGTGTCTCTGAT
TCCGCCGGCGGCAAAAAAAAAAAAAAAAAAAAAAAAAA
ACGCGTAAGCGGGCGCGGCATCTAGATTCTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG
  
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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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_032430.2</u>
Summary:	Serine/threonine-protein kinase that plays a key role in polarization of neurons and centrosome duplication. Phosphorylates CDC25B, CDC25C, MAPT/TAU, RIMS1, TUBG1, TUBG2 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 post-mitotic neurons, leading to down-regulate WEE1 activity in polarized neurons. In neurons, localizes to synaptic vesicles and plays a role in neurotransmitter release, possibly by phosphorylating RIMS1. Also acts as a positive regulator of centrosome duplication by mediating phosphorylation of gamma-tubulin (TUBG1 and TUBG2) at 'Ser-131', leading to translocation of gamma-tubulin and its associated proteins to the centrosome. Involved in the UV-induced DNA damage checkpoint response, probably by inhibiting CDK1 activity through phosphorylation and activation of WEE1, and inhibition of CDC25B and CDC25C.[UniProtKB/Swiss-Prot Function]
Locus ID:	84446
MW:	18.5