

Product datasheet for SC323411

DRAK1 (STK17A) (NM_004760) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DRAK1 (STK17A) (NM_004760) Human Untagged Clone
Tag:	Tag Free
Symbol:	DRAK1
Synonyms:	DRAK1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC323411 sequence for NM_004760 edited (data generated by NextGen Sequencing)

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ATGATCCCTTTGGAGAAGCCAGGCAGCGCGGCTCCTCCCAGGCGCCACCTCAGGCTCG
GGCCGGGCAGGCCGGGTCTGAGCGGGCGTGCCGGCCGCCGCCGCCAGGCCCGC
GGGCTGCTGACAGAGATACGCGCGTGGTGCGCACCGAGCCCTCCAGGACGGCTACAGC
CTGTGCCCGGGCCGGGAGCTGGGCAGGGGAAATTTGCAGTGGTGAGAAAATGTATAAAG
AAAGATTCTGGGAAAGAATTTGCTGCAATGTTTCATGAGAAAAAGAAGAAAAGCCAAAGAT
TGTCGGATGGAATAATTCATGAGATTGCTGTACTTGAAGTAGCACAAGACAATCCTTGG
GTCATTAATTTACATGAAGTTTATGAGACTGCATCAGAAATGATCTTAGTTCTGGAATAT
GCTGCTGGGGTGAATCTTTGACCAGTGTGTTGCAGACAGAGAAGAAGCCTTTAAAGAA
AAAGATGTTCAAAGACTTATGCGACAGATTTTAGAAGGTGTTCACTTTTTACACACTCGT
GATGTAGTTCATCTTGATTTGAAGCCTCAGAATATTCTGTTGACAAGTGAATCTCCATTG
GGTGACATTAAGATTGTTGATTTGGCCTTTCAAGAATATTGAAGAACAGTGAAGAGCTC
CGAGAAATATGGGTACCCCTGAATATGTGGCTCCTGAAATTCCTAGTTATGATCCTATA
AGCATGGCAACAGATATGTGGAGCATTGGAGTGTAAACATATGTCATGCTTACAGGAATA
TCACCTTTCTTAGGCAATGATAAACAAGAAACATCTTAAACATCTCACAGATGAATTTA
AGTTATTCTGAGGAAGAATTTGATGTTTTGTCTGAGTCGGCTGTTGATTTATCAGGACA
CTTTTAGTTAAGAAACCTGAAGATCGAGCCACTGCTGAAGAATGTCTAAGCACCCTGG
TTGACACAGAGCAGTATTCAAGAGCCTTTCTTTCAGGATGGAAAAGGCACTAGAAGAAGCA
AATGCCCTCCAAGAAGGTCATTCTGTGCCTGAAATTAATTCGGATACCGACAAATCAGAA
ACCGAGGAATCCATTGTAACCGAAGAGTTAATTGTAGTTACTTCAATACTCTAGACAA
TGCAGACAGTCTGAAAAAGAGAAAATGGAGCAAAAGGCCATTTCAAACGATTTAAATTT
GAGGAACCTTTGCTACAAGAAATTCAGGAGAATTTATCTACTGA

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Clone variation with respect to NM_004760.2
269 a=>t;1084 a=>g



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for mutant NM_004760 unedited</p> <pre> ACCGCCGTTGTAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA ACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCGCTGGGGAGAG CGGGTGTTTGAAGGCTCCGCGGACCGGCACTAGGAGCCGGGGCGGGTCCGTGACCCTCCGGCTGCTCGG AGCGAACAGGCGGCCAGGAAAGAAGCGGGCCTGAACACCATGATCCCTTTGGAGAAGCCAGGCAGCGGGC GCTCCTCCCAGGCGCCACCTCAGGCTCGGGCCGGCAGGCCGGGGTCTGAGCGGGCCGTGCCGGCCGCC GCCGCCGCCAGGCCCGCGGGCTGCTGACAGAGATACGCGCCGTGGTGCACCCAGCCCTCCAGGAC GGCTACCAGCCTGGTGCCCGGGCCGGGAGCTGGGCAGGGGAAATTTGCAGTGGGTGGAGAAAAGTTAA AGAAGGATCTGGGAAAGAATTTGCTGCAATGTTTCATGAGAAAAGAAGAAAAGGCAAGATGGTCGGATGGA AATAATCATAAAATGCTTTACTTGAAGTACAGGACATCCTTGGGTCCTTAATTTACCTGAAGTTTTTA GACTGACTACAGAATGTTCTTAGTCTGGATAGCTGTCTGGCGTGAATCTTGACCATGGTGTCAACCAGAG AAAGCCTTAGTAAGAGTTCAAGACTTTGCCAGATTGAAGTCACTTACACCCGATGATTACTAGTGAGCC GGAATCCCGTGACTGATCCTTGGACTTAATGAATAGCTCGAGAATGACTTAAAAATCTAGGATGGAAGT GACTAGCTGAAACTCCGATGAGACCAACTCGCCACCAG </pre>
Kinase Domain Sequence:	<p>>SC323411 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation</p> <pre> CCCTGMGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTC AGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCGCTGGGGAGAGCGGGTG TTTGAAGGCTCCGCGGACCGGCACTAGGAGCCGGGGCGGGTCCGTGACCCTCCGGCTGCTCGGAGCGAA CAGGCGCCAGGAAAGAAGCGGGCCTGAACACCATGATCCCTTTG </pre>
Restriction Sites:	Please inquire
ACCN:	NM_004760
Insert Size:	3180 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.</p>
Components:	<p>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).</p>

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_004760.1](#), [NP_004751.1](#)

RefSeq Size: 2641 bp

RefSeq ORF: 1245 bp

Locus ID: 9263

UniProt ID: [Q9UEE5](#)

Cytogenetics: 7p13

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene is a member of the DAP kinase-related apoptosis-inducing protein kinase family and encodes an autophosphorylated nuclear protein with a protein kinase domain. The protein has apoptosis-inducing activity. [provided by RefSeq, Jul 2008]