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Product datasheet for SC323478

DRAK2 (STK17B) (NM_004226) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DRAK2 (STK17B) (NM_004226) Human Untagged Clone
Tag:	Tag Free
Symbol:	DRAK2
Synonyms:	DRAK2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC323478 sequence for NM_004226 edited (data generated by NextGen Sequencing)

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ATGTCGAGGAGGAGATTTGATTGCCGAAGTATTTCAGGCCTACTAACTACAACTCCTCAA
ATTCCAATAAAAATGGAAAACTTTAATAATTTCTATATACTTACATCTAAAGAGCTAGGG
AGAGGTAAATTTGCTGTGGTTAGACAATGTATATCAAAATCTACTGGCCAAGAATATGCT
GCAATGTTTCTAAAAAAGAGAAGAAGAGGACAGGATTGTCGGGCAGAAATTTTACACGAG
ATTGCTGTGCTTGAATTGGCAAAGTCTTGTCCCCGTGTTATTAATCTTCATGAGGTCTAT
GAAAATACAAGTGAAATCATTTTGATATTGGAATATGCTGCAGGTGGAGAAATTTTCAGC
CTGTGTTTACCTGAGTTGGCTGAAATGGTTTCTGAAAATGATGTTATCAGACTCATTAAA
CAAATACTTGAAGGAGTTTATTATCTACATCAGAATAACATTGTACACCTTGATTTAAAG
CCACAGAATATATTACTGAGCAGCATATACCCTCTCGGGGACATTAAAATAGTAGATTTT
GGAATGTCTCGAAAAATAGGGCATGCGTGTGAACTTCGGGAAATCATGGGAACACCAGAA
TATTTAGCTCCAGAAATCCTGAACTATGATCCCATTACCACAGCAACAGATATGTGGAAT
ATTGGTATAATAGCATATATGTTGTTAACTCACACATCACCATTTGTGGGAGAAGATAAT
CAAGAAACATACCTCAATATCTCTCAAGTTAATGTAGATTATTCGGAAGAAACTTTTTCA
TCAGTTTCACAGCTGGCCACAGACTTTATTCAGAGCCTTTTAGTAAAAAATCCAGAGAAA
AGACCAACAGCAGAGATATGCCTTTCTCATTCTTGGCTACAGCAGTGGGACTTTGAAAAC
TTGTTTCACCCTGAAGAAACTTCCAGTTCCTCTCAAACTCAGGATCATTCTGTAAGGTCC
TCTGAAGACAAGACTTCTAAATCCTCCTGTAATGGAACCTGTGGTGATAGAGAAGACAAA
GAGAATATCCCAGAGGATAGCAGCATGGTTTCCAAAAGATTTCGTTTCGATGACTCATTA
CCCAATCCCCATGAACTTGTTTCAGATTTGCTCTGTTAG

Clone variation with respect to NM_004226.3
126 a=>t;185 a=>t;186 a=>g;222 a=>g;741 t=>c
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5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_004226 unedited
ACGCCCGTCCAGCAACGGGCGGTAGGCGCTGCACGGTGGGAGGTTCTATATAAGCAGAGCCCGTCTAGCG
AACCGTCAGAATCCCGTAATACGACCCACTATAGGGCGGCCGCGAATCCGGCACGAGGGCCCTCCCCGCT
GCTGTCGCCAGGAGACACTTTCACGAGAAGCCAGGTCACAACCGTCGGCCCTTTGTCTGGAAAAGCAAAA
GTGGATCCTGCCACGTTCGGAGCTCCCTGGCGCCTCGCCCGGCTGGAGCTAGAGAACTCGTCCTGTGGCG
GCCCCCGGCGTGGGGCGGGACAGCGGCCCCCTGGAGGGGGCAGTCCCGGGAGAACCTGCGGCGGCCGGAG
CGGTAAAAATAAGTGACTAAAGAGCAGACCTGGGATCACCTAACATGTCGAGGAAGAGATTTGATTGCCG
AGTATTTCAGGCCTACTACCTACCAACTCCTCAAATTCAATAAAAAATGAAAACTTTAATAATTTCTAAT
ATACCTACCATCCTAAGGAGCTAGGGAAGAGGTAAATTTGCTTTGGTTAGAACATGGTATTCAAAATCTA
ACTGCAAGAATATGCCTGCAATTGTTCTAAAAGAGAGAAAAGGACGGATTGTCCGGCAAAATTTAACCGA
ATGCGTGCTGAATTGGCAAGTCTGTCCCGGTATAACTTCTGAGGCTTGAATCATGAAACTTGATGGAATG
CCGTGGGAATACCGGTTACGATGCGAAGGTTCGGATAGTTCAACTACACTAGACTAATCCGAACTGACGG
GTGAAGCGGATTCAGACAAAATCCGCATAATAG

Kinase Domain Sequence:

>SC323478 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI refernce protein database, you can confirm the presence of the kinase-deficient mutation
TCTTACATCTAATGAGCTAGGGAGAGGTAAATTTGCTGTGGTTAGACAATGTATATCAAAATCTACTGGC
CAAGAATATGCTGCAATGTTTCTAAAAAAGAGAAGAAGAGGACAGGATTGTCGGGCAGAAATTTTACACG
AGATTGCTGTGCTTGAATTGGCAAAGTCTTGTCCCCGTGTTATTAATCTTCATGAGGTCTATGAAAATAC
AAGTGAAATCATTTTGATATTGGAATATGCTGCAGGTGGAGAAAT

Restriction Sites: Please inquire

ACCN: NM_004226

Insert Size: 2550 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).

OTI Annotation: 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.

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_004226.2, NP_004217.1

RefSeq Size: 1707 bp

RefSeq ORF: 1119 bp

Locus ID:	9262
UniProt ID:	O94768
Cytogenetics:	2q32.3
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	Phosphorylates myosin light chains (By similarity). Acts as a positive regulator of apoptosis. [UniProtKB/Swiss-Prot Function]