

Product datasheet for **SC323471**

TSSK2 (NM_053006) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TSSK2 (NM_053006) Human Untagged Clone
Tag:	Tag Free
Symbol:	TSSK2
Synonyms:	DGS-G; SPOGA2; STK22B; TSK2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC323471 sequence for NM_053006 edited (data generated by NextGen Sequencing)

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ATGGACGATGCCACAGTCCCTAAGGAAGAAGGGTTACATCGTAGGCATCAATCTTGCCAAAG
GGTTCCCTACGCAAAAAGTCAAATCTGCCTACTCTGAGCGCCTCAAGTTCAATGTGGCTGTC
AAGATCATCGACCGCAAGAAAACACCTACTGACTTTGTGGAGAGATTCTTCCTCGGGAG
ATGGACATCCTGGCAACTGTCAACCACGGCTCCATCATCAAGACTTACGAGATCTTTGAG
ACCTCTGACGGACGGATCTACATCATCATGGAGCTTGGCGTCCAGGGCGACCTCCTCGAG
TTCATCAAGTGCCAGGGAGCCCTGCATGAGGACGTGGCACGCAAGATGTTCCGACAGCTC
TCCTCCGCGTCAAGTACTGCCACGACCTGGACATCGTCCACGGGACCTCAAGTGCGAG
AACCTTCTCCTCGACAAGGACTTCAACATCAAGCTGTCTGACTTTGGCTTCTCCAAGCGC
TGCTGCGGGACAGCAATGGGCGCATCATCCTCAGCAAGACCTTCTGCGGGTCCGGCAGCA
TATGCAGCCCCGAGGTGCTGCAGAGCATCCCCTACCAGCCAAGGTGTATGACATCTGG
AGCCTGGGCGTGATCCTGTACATCATGGTCTGCGGCTCCATGCCCTATGACGACTCCGAC
ATCAGGAAGATGCTGCGTATCCAGAAGGAGCACCGTGTGGACTTCCCGCGCTCCAAGAAC
CTGACCTGCGAGTGCAAGGACCTCATCTACCGCATGCTGCAGCCCCGACGTGAGCCAGCGG
CTCCACATCGATGAGATCCTCAGCCACTCGTGGCTGCAGCCCCCAAGCCAAAGCCACG
TCTTCTGCCTCCTTCAAGAGGGAGGGGGAGGGCAAGTACCGCGCTGAGTGCAAACTGGAC
ACCAAGACAGACTTGAGGCCCGACCACCGGCCCGACCACAAGCTTGAGGCCAAAACCCAG
CACCGGCTGCTGGTGGTGCCTGAGAACGAGAACAGGATGGAGGACAGGCTGGCCGAGACC
TCCAGGGCCAAAGACCATCACATCTCCGAGCTGAGGTGGGAAAGCAAGCACCTAG

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Clone variation with respect to NM_053006.4
911 g=>a



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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_053006 unedited CCCGCCGTCTGAGCAATGGGCGGTAGGCGGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA ACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGCATAAATTCGTATAGCATACATTATACGA AGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGGAGTGAAGCCCAGCCCAGGGC AGCCCAGCCAGACGCCTCCGGTAGTGTAAATGAGGACAATGCCTGCTGGCCACATGACGGGGGATGTA GACGGCAGCGGCCAGTCGCTCCTGGCACCATTGGACGATGCCACAGTCCTAAGGGAAGAGGGGTTACAT CGTAGGCATCAATCTTGGCAAGGGGTTCTACGCAAAAGTCAAATCTGCCTACTCTGACCGCCCTCAGGT TAAAGTGGGTCTGGTCAGGATCCATCGACCGCAGAAAAAAGAACCGCCTCAGGTTTCATGGTGGCTGTAAAG ATCTCCGACCCAAGGAAATGGACCCCCAAAGTCAATGGTGGGTGTAAGAATATCGCGCCCAAAGAAA TTAGAGGCCTCAAGTTTCCAATTGGGCTTGCTATTAATCCGAACCGAAGAGAAATGGAACCGGCCCTCG TTTACTAGTTGGGGCTGACAATTACACGACCGCAAAAAATGTGCGCCCCAGTTTCAAGTGGGGCTGAT GAGATCCACACCGAGAAAAACCTCCTGTGATTGTGAGAAATCTCTCCTCCGAGAGGAGGACTCGGACA GTGTCACCGCGCTCATATGAATATAAGATATTGTAACACTGAGAGGAGTGTACTCATATGAGATGTGGCT GGGACACTCAGTGATTAATGCTCGAGCGTCTGATGAAGGCTGCCAAAGTAGTCAGCATCCTCTCCTCCGA ATAGTACGACTGAGCTGTCGAGAAGCAATGTGAACATTCTGAGCAGAGCTACCTGGTGAATGAAGT
Kinase Domain Sequence:	>SC323471 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 TGTAGCATCATCTTGGCAGGGTTCCTACGCAAAAGTCAAATCTGCCTACTCTGAGCGCCTCAAGTTCAAT GTGTCTGTCATGATCATCGACCGCAAGAAAATGAGCGCCTCAAGTTCAATGTGGCTGTCATGATCATCGA CCGCAAGAAAATGAGCGCCTCAAGTTCAATGTGGCTGTCAAGATCATCGACCGCAAGAAAATGAGCGCCT CAAGTTCAATGTGGCTGTCATGATCATCGACCGCAAGAAAATGAG
Restriction Sites:	Please inquire
ACCN:	NM_053006
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:	<ol style="list-style-type: none">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_053006.3 , NP_443732.2
RefSeq Size:	1363 bp

RefSeq ORF: 1077 bp

Locus ID: 23617

UniProt ID: [Q96PF2](#)

Cytogenetics: 22q11.21

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: TSSK2 belongs to a family of serine/threonine kinases highly expressed in testis (Hao et al., 2004 [PubMed 15044604]).[supplied by OMIM, Mar 2008]