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Product datasheet for SC323613

TESK2 (NM_007170) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TESK2 (NM_007170) Human Untagged Clone
Tag:	Tag Free
Symbol:	TESK2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>NCBI ORF sequence for NM_007170, the custom clone sequence may differ by one or more nucleotides

ATGGATCGGAGCAAACGGAATTCAATTGCAGGATTTCCTCCACGTGTGGAGCGTCTTGAAGAGTTTGAAG
GAGGTGGTGGAGGAGAAGGAAATGTGAGCCAGGTGGGAAGAGTTTGGCCATCTTCGTATCGAGCTCTTAT
AAGTGCCTTTTCCAGACTGACGCGTTTGGATGATTTCACCTGTGAAAAAATAGGGTCTGGCTTCTTTTCT
GAAGTGTTCAAGGTACGACACCGAGCTTCTGGTCAGGTGATGGCTCTTAAGATGAACACATTGAGCAGTA
ACCGGGCAAACATGCTGAAAGAAGTACAGCTCATGAATAGACTCTCCCATCCCAACATCCTTAGGTTCAT
GGGTGTATGTGTTCATCAAGGACAATTGCATGCACTTACAGAGTATATCAACTCCGGGAACCTGGAACAG
TTGCTAGACAGTAACCTGCATTTGCCTTGGACTGTGAGGGTAAAACTGGCCTATGACATAGCAGTGGGCC
TCAGCTACCTTCACTTCAAAGGCATTTTTCATCGGGACCTCACATCTAAGAACTGCCTGATAAAGAGGGA
TGAGAATGGTTACTCTGCAGTGGTAGCTGACTTTGGCCTGGCTGAGAAGATCCCCGATGTCAGCATGGGG
AGTGAGAAGCTGGCCGTGGTGGGTTCCCCATTCTGGATGGCACCTGAGGTTCTCCGAGATGAGCCCTATA
ATGAAAAGGCAGATGTGTTCTCTTATGGTATCATCCTCTGCGAGATCATCGCCCGCATCCAGGCCGATCC
GGACTATCTTCCCCGCACAGAGAATTTCGGGCTGGACTATGATGCTTTCCAGCACATGGTGGGAGACTGT
CCCCCAGATTTTCTGCAACTTACTTTCAACTGCTGTAACATGGATCCCAAACTGCGCCCATCTTTTGTGG
AGATTGGGAAGACCCTGGAGGAAATTCTGAGCCGCCTACAGGAAGAAGAGCAGGAGAGGGATAGGAAGCT
GCAGCCCACAGCCAGGGGACTCTTGGAGAAAGCACCTGGGGTGAAGCGACTAAGCTCACTGGATGACAAG
ATCCCCCACAAGTCACCATGCCCAAGACGTACCATCTGGCTGTCTCGAAGCCAGTCAGATATCTTTTCCC
GTAAGCCCCCACGTACAGTGAGTGTCTTGGACCCATACTACCGGCCACGAGATGGTGCTGCCCGCACCCC
CAAAGTCAACCCTTTTAGTGCTCGCCAGGACCTCATGGGGGGCAAGATCAAGTTTTTTGACCTGCCCAGC
AAGTCTGTCATCTCTCTGGTATTTGACCTGGATGCACCAGGGCCCGGAACTATGCCCCTGGCTGACTGGC
AGGAGCCCCTGGCCCCACCTATTCGCCGGTGGCGTTCCTTGCCTGGTTCGCCTGAGTTCTTGCATCAAGA
GGCTTGTCCATTTGTGGGCCGGGAAGAATCGCTATCTGATGGGCCCCCACCACGCCTAAGTAGTCTCAAG
TACAGAGTTAAAGAGATCCCACCATTCCGGGCATCTGCCCTACCAGCTGCTCAAGCCCATGAGGCTATGG
ACTGCTCCATTCTCCAGGAAGAAAATGGTTTTGGGTCCAGGCCCCAGGGGACCAGTCCATGCCCTGCGGG
TGCTTCTGAGGAGATGGAGGTAGAAGAAAGGCCAGCAGGCTCAACTCCAGCCACCTTCTCCACCTCAGGC
ATAGGCCTGCAAACCCAGGGAAAGCAGGATGGGTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_007170 unedited
CCGCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAAC
CGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACCAGGCCCTGTTGGCTTCGC
TGGTCGGATCGTCCTCCTGGCCCCGCCAAACAGGCGGGGGGAGCGGCCCCGACTGTGGGGCCATGGCCGT
AGTCTCCTCGTTCTCCGCCGCCGCTAGCCTACCTGAGTCTCCGGCTTCTGCGCTAGGGGCTCCTACCGCC
TCCGCAGGCTAGGAGCCGCTGCCCCACGAGCTGTGACGGTTACTAGCTCCTCTTGCCGCCGCCCCCCCCT
TGCCCCCCCGCCCCGCGGGCTGCTCGTTTGCAAAAGCGACCTAGAAGAATAAGAATTCATAAACTTTTTA
AGTGTGGGATTTCCTTCGTAAGCAAAAAAAAAAGTTGATTTATTTAAACCTTGGGATGGAGATCAAAACG
GAATTTCATTTGCCGGGATTTCCTCCCCCTTTGAGGACCCTCTTGTGGAAAAATTTAAAGGAGGGGGGGG
GGGGAAAAAGAAAATTGCACCCGGGGGGGGAGAAACATTTGAAATTTTTTTTAAAAAGCGGGGCAAAAAG
GGGGGCAAAAAAAAAAAACCCCTTTAAAAATTTCTCCCCCAGAAAAAAAGAGGGGCCCCCCCCCTTTTT
TTCACGGGTTCAAAGGGGAAAATCCCCCCCCTCCCCCCGAGGCGGCGGGGTCTTTTTTTTTAAAAAAAAA
TAGGGCGGCGGGTGGCGGGGAAACCTGGGGGGAACCACCCCCTGAGCGTGGGGGGGATTTACTCTCCCGA
TGTTATAGAGCATGGGGGAGTGTTTTCTTTTCCCAGGAACTCTTTCTCACATGGTTGGTAGTAATCTCAC
GCGTGTATCAGAAGAACATATCACCCACCCCTATTTGCGTTGTGCGGAGTAGGGGAGGATATAGTCTACG
CTAATATAACTACGCGATCATTCATGTCTCCGTTTCATATTAGCGATATACTCTTATCTGAGAGCCGCTC
ACAGCATTCATA

Kinase Domain Sequence:	>SC323613 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 TCTTCGTAATACGGTCTGGCTTCTTTTCTGAGTGTTCAAGGTACGACACCGAGCTTCTGGTCAGGTGATG GCTCTTATGATGAACACATTGAGCAGTAACCGGGCAAACATGCTGAAAGAAGTACAGCTCATGAATAGAC TCTCCCATCCCAACATCCTTAGGTTCATGGGTGTATGTGTTCATCAAGGACAATTGCATGCACTTACAGA GTATATCAACTCCGGGAACCTGGAACAGTTGCTAGACAGTAACCT
Restriction Sites:	Please inquire
ACCN:	NM_007170
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_007170.1, NP_009101.1
RefSeq Size:	3016 bp
RefSeq ORF:	1668 bp
Locus ID:	10420
UniProt ID:	Q96S53
Cytogenetics:	1p34.1
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase

Gene Summary: This gene product is a serine/threonine protein kinase that contains an N-terminal protein kinase domain that is structurally similar to the kinase domains of testis-specific protein kinase-1 and the LIM motif-containing protein kinases (LIMKs). Its overall structure is most related to the former, indicating that it belongs to the TESK subgroup of the LIMK/TESK family of protein kinases. This gene is predominantly expressed in testis and prostate. The developmental expression pattern of the rat gene in testis suggests an important role for this gene in meitoic stages and/or early stages of spermiogenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]
Transcript Variant: This variant (1) encodes the longer isoform (1).