

Product datasheet for **SC303946**

DKK1 (NM_012242) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DKK1 (NM_012242) Human Untagged Clone
Tag:	Tag Free
Symbol:	DKK1
Synonyms:	DKK-1; SK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_012242 edited
 CCCTGCAGTCAGGACTCTGGGACCGCAGGGGGCTCCCGGACCCTGACTCTGCAGCCGAAC
 CGGCACGGTTTCGTGGGACCCAGGCTTGCAAAGTGACGGTCATTTTCTTTCTTTCTC
 CCTCTTGAGTCCTTCTGAGATGATGGCTCTGGGCGCAGCGGGAGCTACCCGGGTCTTTGT
 CGCGATGGTAGCGGCGGCTCTCGGCGGCCACCCTCTGCTGGGAGTGAGCGCCACCTTGAA
 CTCGGTCTCAATTCCAACGCTATCAAGAACCTGCCCCACCGCTGGGCGGCGCTGCGGG
 GCACCCAGGCTCTGCAGTCAGCGCCGCGCGGAATCCTGTACCCGGGCGGAATAAGTA
 CCAGACCATTGACAACCTACCAGCCGTACCCGTGCGCAGAGGACGAGGAGTGCGGCACTGA
 TGAGTACTGCGTAGTCCCACCCGCGGAGGGGACGCGGCGTGCAAATCTGTCTCGCCTG
 CAGGAAGCGCCGAAAACGCTGCATGCGTCACGCTATGTGCTGCCCGGAATTACTGCAA
 AAATGGAATATGTGTCTTCTGATCAAAATCATTTCGAGGAGAAATTGAGGAAACCAT
 CACTGAAAGCTTTGGTAATGATCATAGCACCTTGGATGGGTATTCCAGAAGAACCACCTT
 GTCTTCAAAAATGTATCACCAAAGGACAAGAAGTTCTGTTTGTCTCCGGTATCAGA
 CTGTGCCTCAGGATTGTGTTGTGCTAGACACTTCTGGTCCAAGATCTGTAACCTGTCCT
 GAAAGAAGGTCAAGTGTGTACCAAGCATAGGAGAAAAGGCTCTCATGGACTAGAAATATT
 CCAGCGTTGTTACTGTGGAGAAGGTCTGTCTTGCCGGATACAGAAAAGATCACCATCAAGC
 CAGTAATTCTTCTAGGCTTCACACTTGTGAGAGACACTAAACCAGCTATCCAAATGCAGT
 GAACTCCTTTTATATAATAGATGCTATGAAAACCTTTTATGACCTTCATCAACTCAATCC
 TAAGGATATACAAGTTCTGTGGTTTCAGTTAAGCATTCCAATAACACCTTCCAAAAAAA
 AAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_012242 unedited</p> <pre> NAAGTCAACAATTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGCCCTGCA GTCAGGACTCTGGGACCGCAGGGGCTCCCGGACCCTGACTCTGCAGCCGAACCGGCACGG TTTCGTGGGGACCCAGGCTTGCAAAGTGACGGTCATTTTCTTTTCTTTCTCCCTTTGA GTCCTTCTGAGATGATGGCTCTGGGCGCAGCGGGAGCTACCCGGGCTTTTGTGCGGATGG TAGCGGCGGGCTCTCGGCGGCCACCCTCTGCTGGGAGTGAGCGCCACCTTGAACCTCGGTTT TCAATTCCAACGCTATCAAGAACCTGCCCCACCCTGGGCGGGCTGCGGGGCACCCAG GCTCTGCAGTCAGCGCCCGCCGGAATCCTGTACCCGGGCGGGAATAAGTACCAGACCA TTGACAACCTACCAGCCGTACCCGTGCGCAGAGGACGAGGAGTGCGGCACTGATGAGTACT GCGCTAGTCCCACCCGCGGAGGGGACGCATGCGTGCAAATCTGTCTCGCCTGCAGGAAGC GCCGAANACGCTGCATGCGTCACGCTATGTGCTGCCCCGGGAATTACTGCAAAAAATGGAA TATGTGTGCTTCTGATCAAAATCATTTCCGAGGAGAAATTGANGAAACCATCACTGANA GCTTTGGTAATGATCATAGCACCTTGGATGGGTATTCCAGAAGAACCACCTTGTCTTCAA AAATGTATCACACCANAGGACAAGAAGTTCTGTTTGTCTCCGGTCATCAGACTGTGCCT CAAGATTGTGTTGTGCTAGACACTTCTGGGTCAAGATCTGNTAACCTGCTCTGAAAGAAG GTCAAGTGTGTACCAAGCATAGGAGGAAAGGCTCTCATGGACTAGAAATATTCCAGCGTT GNTACTGTGG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_012242 unedited</p> <pre> NACTTGTATATCCTTAGGATTGAGTTGATGAAGGTCATAAAAGGTTTTTCATAGCATCTAT TATATAAAAGGAGTTCACTGCATTTGGATAGCTGGTTTAGTGTCTCTGACAAGTGTGAAG CCTAGAAGAATTACTGGCTTGATGGTGATTTTCTGTATCCGGCAAGACAGACCTTCTCC ACAGTAACAACGCTGGAATATTTCTAGTCCATGAGAGCCTTTTCTCCTATGCTTGGTACA CACTTGACCTTCTTTCAGGACAGGTTTACAGATCTTGGACCAGAAGTGTCTAGCACAAACA CAATCCTGAGGCACAGTCTGATGACCGGAGACAAACAGAACCTTCTTGTCTTTGGTGTG ATACATTTTTGAAGACAAGGTGGTTCTTCTGGAATACCCATCCAAGGTGCTATGATCATT ACCAAAGCTTTCAGTGATGGTTTCTCAATTTCTCCTCGGAAATGATTTTGTATCAGAAGA CACACATATTCATTTTTGCAGTAATCCCGGGGCAGCACATAGCGTGACGCATGCAGCG TTTTCGGCGCTTCTGCAGGCGAGACAGATTTGCACGCCTGCGTCCCCTCCGCGGGTGGG ACTAGCGCAGTACTCATCAGTGCCGCACTCCTCGTCTCTGCGCACGGGTACGGCTGGTA GTTGTCAATGGTCTGGTACTTATTTCCCGCCCGGGTACAGGATTTCCCGGCGGGCGCTGAC TGCAGAGCTGGGTGCCCGCAGCGCCCGCCAGCGTGGGGGAGGTTTCTTGTATAGCGTT GGAATTGAGAACCGAGTTCAAGGTGGCGCTCACTCCAGCAGAGGTTGGCCGCGGAGAGC GCGCGCTACCATCGCGACAAAACCCGGGTAGCTCCCGCTGCGCCAGAACATCA </pre>
Restriction Sites:	Please inquire
ACCN:	NM_012242
Insert Size:	1103 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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_012242.2 , NP_036374.1
RefSeq Size:	1815 bp
RefSeq ORF:	801 bp
Locus ID:	22943
UniProt ID:	O94907
Cytogenetics:	10q21.1
Protein Families:	Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway
Protein Pathways:	Wnt signaling pathway
Gene Summary:	This gene encodes a member of the dickkopf family of proteins. Members of this family are secreted proteins characterized by two cysteine-rich domains that mediate protein-protein interactions. The encoded protein binds to the LRP6 co-receptor and inhibits beta-catenin-dependent Wnt signaling. This gene plays a role in embryonic development and may be important in bone formation in adults. Elevated expression of this gene has been observed in numerous human cancers and this protein may promote proliferation, invasion and growth in cancer cell lines. [provided by RefSeq, Sep 2017]