

## Product datasheet for **RG200094**

### DKK1 (NM\_012242) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DKK1 (NM_012242) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DKK1
Synonyms:	DKK-1; SK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200094 representing NM_012242 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATGGCTCTGGGCGCAGCGGGAGCTACCCGGGTCTTTGTGCGGATGGTAGCGGCGGCTCTCGGCGGCC  
 ACCCTCTGCTGGGAGTGAGCGCCACCTTGAACGCTTCAATTCCAACGCTATCAAGAACCTGCCCCC  
 ACCGCTGGGCGGCGCTGCGGGGACCCAGGCTCTGCAGTCAGCGCCGCGCCGGAATCCTGTACCCGGG  
 GGAATAAGTACCAGACCATTGACAACCTACCAGCCGTACCGTGCGCAGAGGACGAGGAGTGCAGGACTG  
 ATGAGTACTGCGTAGTCCCACCCGCGGAGGGGACGCAGGCGTGCAAATCTGTCTCGCTGCAGGAAGCG  
 CCGAAAACGCTGCATGCGTCACGCTATGTGCTGCCCGGGAATTACTGCAAAAATGGAATATGTGTGCT  
 TCTGATCAAAATCATTTCCGAGGAGAAATTGAGGAAACCATCACTGAAAGCTTTGGTAATGATCATAGCA  
 CCTTGGATGGGTATTCCAGAAGAACACCTTGTCTTCAAAAATGTATCACACCAAGGACAAGAAGGTTT  
 TGTTTGTCTCCGGTCATCAGACTGTGCCTCAGGATTGTGTTGTGCTAGACACTTCTGGTCCAAGATCTGT  
 AAACCTGTCCTGAAAGAAGGTCAAGTGTGTACCAAGCATAGGAGAAAAGGCTCTCATGGACTAGAAATAT  
 TCCAGCGTTGTTACTGTGGAGAAGGTCTGTCTTGCCGGATACAGAAAGATCACCATCAAGCCAGTAATTC  
 TTCTAGGCTTCACACTTGTCTCAGAGACAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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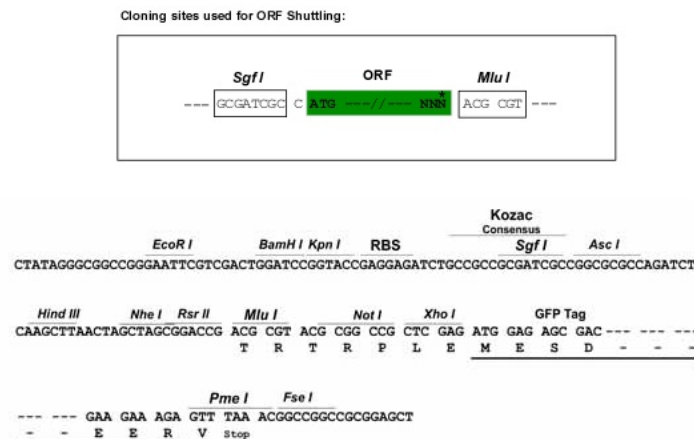
**Protein Sequence:** >RG200094 representing NM\_012242  
 Red=Cloning site Green=Tags(s)

MMALGAAGATRVFVAMVAAALGGHPLLGVSATLNSVLNSNAIKNLPPPLGGAAGHPGSAVSAAPGILYPG  
 GNKYQTIIDNYQPYPCAEDEECGTDEYCASPTRGGDAGVQICLACRKRRCMRHAMCCPGNYCKNGICVS  
 SDQNHFRGEIETITESFGNDHSTLDGYSRRTTLSSKMYHTKGQEGSVCLRSSDCASGLCCARHFWKIC  
 KPVLEKGQVCTKHRRKGSHGLEIFQRCYCGEGLSCRIQKDHQASNSSRLHTCQRH

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_012242

**ORF Size:** 798 bp

**OTI Disclaimer:** 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](#)

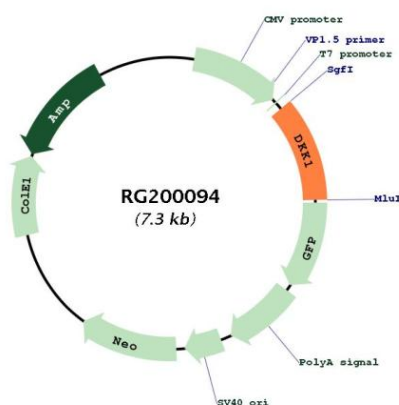
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).



<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_012242.4</u>
<b>RefSeq Size:</b>	1815 bp
<b>RefSeq ORF:</b>	801 bp
<b>Locus ID:</b>	22943
<b>UniProt ID:</b>	<u>O94907</u>
<b>Cytogenetics:</b>	10q21.1
<b>Protein Families:</b>	Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway
<b>Protein Pathways:</b>	Wnt signaling pathway
<b>Gene Summary:</b>	<p>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]</p>

## Product images:



Circular map for RG200094