

Product datasheet for SC118826

GSK3 beta (GSK3B) (NM_002093) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GSK3 beta (GSK3B) (NM_002093) Human Untagged Clone
Tag:	Tag Free
Symbol:	GSK3 beta
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118826 sequence for NM_002093 edited (data generated by NextGen Sequencing)

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ATGTCAGGGCGGCCAGAACCCACCTCCTTTGCGGAGAGCTGCAAGCCGGTGCAGCAGCCT
TCAGCTTTTGGCAGCATGAAAGTTAGCAGAGACAAGGACGGCAGCAAGGTGACAACAGTG
GTGGCAACTCCTGGGCAGGGTCCAGACAGGCCACAAGAAGTCAGCTATACAGACACTAAA
GTGATTGGAAATGGATCATTGGTGTGGTATATCAAGCCAAACTTTGTGATTTCAGGAGAA
CTGGTCGCCATCAAGAAAGTATTGCAGGACAAGAGATTTAAGAATCGAGAGCTCCAGATC
ATGAGAAAGCTAGATCACTGTAACATAGTCCGATTGCGTTATTTCTTCTACTCCAGTGGT
GAGAAGAAAGATGAGGTCTATCTTAATCTGGTGTGGACTATGTTCCGGAAACAGTATAC
AGAGTTGCCAGACACTATAGTCGAGCCAAACAGACGCTCCCTGTGATTTATGTCAAGTTG
TATATGTATCAGCTGTTCCGAAGTTTGCCTATATCCATTCCCTTTGGAATCTGCCATCGG
GATATTAACCGCAGAACCCTTTGTTGGATCCTGATACTGCTGTATTAACCTCTGTGAC
TTTGAAGTGCAAAGCAGCTGGTCCGAGGAGAACCCTAATGTTTCGTATATCTGTTCTCGG
TACTATAGGGCACCAGAGTTGATCTTTGGAGCCACTGATTATACCTCTAGTATAGATGTA
TGGTCTGCTGGCTGTGTGTTGGCTGAGCTGTTACTAGGACAACCAATATTTCCAGGGGAT
AGTGGTGTGGATCAGTTGGTAGAAATAATCAAGGTCTGGGAACCCAACAAGGGAGCAA
ATCAGAGAAATGAACCCAACTACACAGAATTTAAATTCCTCAAATTAAGGCACATCCT
TGGACTAAGGATTCGTCAGGAACAGGACATTTACCTCAGGAGTCCGGTCTTCCGACCC
CGAACTCCACCGAGGCAATTGCACTGTGTAGCCGTCTGCTGGAGTATACCAACTGCC
CGACTAACCACTGGAAGCTTGTGCACATTCATTTTTGATGAATTACGGGACCCAAAT
GTCAAATACCAATGGGCGAGACACACCTGCACTCTTCAACTTCACTCAAGAACTG
TCAAGTAATCCACTCTGGCTACCATCCTTATTCTCCTCATGCTCGGATTCAAGCAGCT
GCTTCAACCCCAAAATGCCACAGCAGCGTCAGATGCTAATACTGGAGACCGTGGACAG
ACCAATAATGCTGCTTCTGCATCAGCTTCCAACCTCCACCTGA

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Clone variation with respect to NM_002093.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002093 unedited CTCACTATAGGCGGCCGGAATTCGCACGAGGCCTTTCTCTTCAGCGTGAGACTCGTGAT CCTTCCGCGCTTCCCTTTCTTCATTGACTCGGAAAAAATCCCCGAGGAAAATATAAT ATTCGAAGTACTCATTTTCAATCAAGTATTTGCCCGTTTCACGTGATACATATTTTTT TAGGATTTGCCCTCTCTTTCTCTCCTCCCAGGAAAGGGAGGGGAAAGAATTGTATTTTT TCCCAAGTCCTAAATCATCTATATGTTAAATATCCGTGCCGATCTGTCTTGAAGGAGAAA TATATCGCTTGTGTTTTGTTTTTATAGTATACAAAAGGAGTGAAAAGCCAAGAGGACGAAG TCTTTTTCTTTTTCTTCTGTGGGAGAACTTAATGCTGCATTTATCGTTAACCTAACACCC CAACATAAAGACAAAAGGAAGAAAAGGAGGAAGGAAGGAAAAGGTGATTCGCGAAGAGAG TGATCATGTCAGGGCGGCCAGAACCTCCTTTGCGGAGAGCTGCAAGCCGGTGCAGC AGCCTTCAGCTTTGGCAGCATGAAAGTTAGCAGAGACAAGGACGGCAGCAAGGTGACAA CAGTGGTGGCAACTCCTGNCAGGGTCCAGACAGGCCACAAGAAGTCAGCTATACAGACA CTAAAGTGATTGAAAATGGATCATTTGGTGTGGTATATCAAGCCAACTTTGTGATTGAG GAGAACTGGTCGCATCAAGAAAGTATTGCAGGACAAGAGATTTAAGATCGAGAGCTCCA GATCATGAGAAAGCTAGATCACTGGTACATAGTCCGATTTGCGTATTTCTCTACTNCAG TGTGAGAAGAAAGAGAGGTCTATCT
Restriction Sites:	NotI-NotI
ACCN:	NM_002093
Insert Size:	7800 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:	A TrueClone.
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_002093.2 , NP_002084.2
RefSeq Size:	1639 bp
RefSeq ORF:	1302 bp
Locus ID:	2932
UniProt ID:	P49841
Cytogenetics:	3q13.33
Domains:	pkinase, TyrKc, S_TKc

Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Alzheimer's disease, Axon guidance, Basal cell carcinoma, B cell receptor signaling pathway, Cell cycle, Chemokine signaling pathway, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Focal adhesion, Hedgehog signaling pathway, Insulin signaling pathway, Melanogenesis, Neurotrophin signaling pathway, Pathways in cancer, Prostate cancer, T cell receptor signaling pathway, Wnt signaling pathway
Gene Summary:	<p>The protein encoded by this gene is a serine-threonine kinase belonging to the glycogen synthase kinase subfamily. It is a negative regulator of glucose homeostasis and is involved in energy metabolism, inflammation, ER-stress, mitochondrial dysfunction, and apoptotic pathways. Defects in this gene have been associated with Parkinson disease and Alzheimer disease. [provided by RefSeq, Aug 2017]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>