

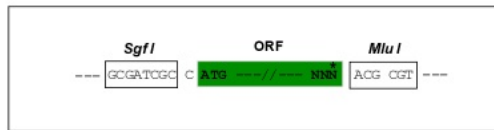
Product datasheet for **RG228888**

GSK3 beta (GSK3B) (NM_001146156) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GSK3 beta (GSK3B) (NM_001146156) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GSK3 beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



Cloning sites used for ORF Shuttling:

```

          EcoR I      BamH I Kpn I      RBS      Kozac Consensus      Sgf I      Asc I
          CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGGCCAGATCT

          Hind III      Nhe I Rsr II      Mlu I      Not I      Xho I      GFP Tag
          CAAGCTTAAGCTAGCTAGCGGACCG      ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
          T R T R P L E M E S D - - -

          Pme I      Fse I
          --- GAA GAA AGA GTT TAA ACGGCCGGCCCGGAGCT
          - - E E R V stop
    
```

ACCN:	NM_001146156
ORF Size:	1260 bp

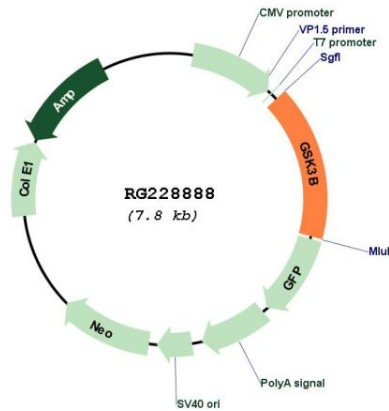


[View online »](#)

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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).
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_001146156.1 , NP_001139628.1
RefSeq Size:	7095 bp
RefSeq ORF:	1263 bp
Locus ID:	2932
UniProt ID:	P49841
Cytogenetics:	3q13.33
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:

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]

Product images:


Circular map for RG228888