

Product datasheet for **RG208698**

GSK3 alpha (GSK3A) (NM_019884) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | GSK3 alpha (GSK3A) (NM_019884) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | GSK3 alpha |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG208698 representing NM_019884
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCGGCGCGGGCCCTTCGGGAGGCGGCCCTGGGGCTCGGGCAGGGCGGGACTAGCTCGTTTCGCGG
 AGCCCGGCGGCGAGGCGGAGGAGGCGGCGGCCCGGAGGCTCGGCCTCCGGCCAGGGCGCACCGG
 CGGCGAAAGGCATCTGTCGGGGCCATGGTGGGGCGTGGGGCCTCGAGCTCCGGGGGTGACCCGGC
 GGCAGCGGCGGAGGAGGAGCGGAGGCCCGGCGCAGGCACTAGCTTCCCGCCGCCGGGTGAAGCTGG
 GCCGTGACAGCGGAAGGTGACCACAGTCGTAGCCACTTAGGCCAAGGCCAGAGCGCTCCAAGAAGT
 GGCTTACACGGACATCAAAGTGATTGGCAATGGCTCATTTGGGGTCTGTACCAGGCACGGCTGGCAGAG
 ACCAGGGAAGTACGATCGCCATCAAGAAGTTCTCCAGGACAAGAGGTTCAAGAACCAGAGCTGCAGATCA
 TCGTAAGCTGGACCACTGCAATATTGTGAGGCTGAGATACTTTTCTACTCCAGTGGCGAGAAGAAAGA
 CGAGCTTACCTAAATCTGGTGTGGAATATGTGCCCGAGACAGTGTACCGGGTGGCCCGCCACTTACC
 AAGGCCAAGTTGACCATCCCTATCCTCTATGTCAAGGTGTACATGTACCAGCTTCCCGCAGCTTGGCCT
 ACATCCACTCCCAGGGCGTGTGTACCCGCGACATCAAGCCCCAGAACCTGCTGGTGGACCCTGACTGCT
 TGTCTCAAGCTCTGCGATTTTGGCAGTGCAAAGCAGTTGGTCCGAGGGGAGCCCAATGTCTCTACATC
 TGTTCTCGCTACTACCGGCCCCAGAGCTCATCTTTGGAGCCACTGATTACCTCATCCATCGATGTTT
 GGTGAGTGGCTGTACTGGCAGAGCTCCTCTGGGCCAGCCATCTTCCCTGGGGACAGTGGGGTGGG
 CCAGCTGGTGGAGATCATCAAGGTGCTGGGAACCAACCCGGGAACAAATCCGAGAGATGAACCCCAAC
 TACACGGAGTTCAAGTCCCTCAGATTAAGCTCACCCCTGGACAAGGTGTTCAAATCTCGAACGCCGC
 CAGAGGCCATCGCGCTCTGCTTAGCCTGCTGGAGTACACCCCTCCTCAAGGCTCTCCCACTAGAGGC
 CTGTGCGCACAGCTTCTTTGATGAAGTGCATGTCTGGGAACCCAGCTGCCTAACCAACCGCCACTTCCC
 CCTCTCTTCAACTTCAGTGTGTGAAGTCTCCATCCAACCGTCTCTCAACGCCATTCTCATCCCTCCTC
 ACTTGAGTCCCCAGCGGCACTACCACCCTCACCCCGTCTCACAAGCTTTAACTGAGACTCCGACCAG
 CTCAGACTGGCAGTCGACCGATGCCACACTACCCTCACTAACTCTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208698 representing NM_019884
 Red=Cloning site Green=Tags(s)

MSGGGPSGGGPGGSGRARTSSFAEPGGGGGGGGGGPGGSASGPGGTGGGKASVGAMGGVGASSGGGPG
 GSGGGSGGPGAGTSFPPPGVKLGRDSGKVTTVVATLGGQPERSQEVAYTDIKVINGSGFVVYQARLAE
 TRELVAIKKVLQDKRFKNRELQIMRKL DHCNIVRLRYFFYSSGEKKDEL YLNLVLEYVPETVYRVARHFT
 KAKLTIPILYVKVYMYQLFRSLAYIHSQGVCHRDIKPQNLLVDPDTAVLKL CDFGSAKQLVRGEPNVS
 YI CSRYRRAPELIFGATDYSSIDVWSAGCVLAELLLGQPIFPDGSVDQLVEIIKVLGTPREQUIREMNP
 N YTEFKFPQIKAHPTKVFKSRTPEAIALCSSLLEYTPSSRLSPLEACAHSFDELRLCLGTQLPNNRPLP
 LFNFSAGELSIQPSLNAILIPPHLRSPAGTTTLPSSQALTETPTSSDWQSTDATPTLTNNS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_019884

ORF Size: 1449 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).

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_019884.3](#)

RefSeq Size: 2200 bp

RefSeq ORF: 1452 bp

Locus ID: 2931

UniProt ID: [P49840](#)

Cytogenetics: 19q13.2

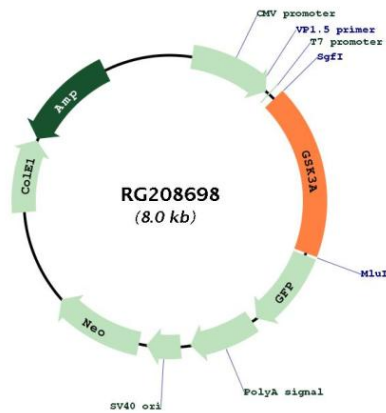
Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Chemokine signaling pathway

Gene Summary: This gene encodes a multifunctional Ser/Thr protein kinase that is implicated in the control of several regulatory proteins including glycogen synthase, and transcription factors, such as JUN. It also plays a role in the WNT and PI3K signaling pathways, as well as regulates the production of beta-amyloid peptides associated with Alzheimer's disease. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RG208698